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## Kit Components

Kit Product No.	Kit Product Description
212539	KIT GRAM STAIN STABILIZED

Kit Component(s)	Kit Component(s) Description
0332975BJAA	Gram Crystal Violet
0333075BJAA	GRAM DECOLORIZER 250ML
0333275BJAA	Gram Safranin
0334275BJAA	STABILIZED GRAM IODINE 250ML

### IMDG

UN Number:	UN 3316
UN Proper Shipping Name:	CHEMICAL KIT
Transport Hazard Class(es)	
Class:	9
Label(s):	9
EmS No.:	F-A, S-P
Packing Group:	II
Environmental Hazards:	Not regulated.
Marine Pollutant:	No
Special precautions for user:	Not regulated.

### IATA

UN Number:	UN 3316
Proper Shipping Name:	Chemical kit
Transport Hazard Class(es):	
Class:	9



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Label(s):	9MI
Packing Group:	II
Environmental Hazards:	Not regulated.
Marine Pollutant:	No
Cargo aircraft only:	Forbidden.
Special precautions for user:	Not regulated.

Please note: If a listed component does not have a corresponding document included, this means that the product is not hazardous and does not require a Safety Data Sheet.



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# SAFETY DATA SHEET

## 1. Identification

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
0334275BJAA	STABILIZED GRAM IODINE 250ML	No data available

### Other means of identification

SDS number: 088100177510

### Recommended use and restriction on use

**Recommended use:** Laboratory Chemicals

**Restrictions on use:** None known.

### Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

Company Name: BD, Integrated Diagnostic Solutions  
Address: 7 Loveton Circle  
Sparks, MD 21152 USA  
Telephone: 1 844 823 5433  
Fax: not available  
Contact Person: Tech Services

**Emergency telephone number:** CHEMTREC 1 800 424 9300

## 2. Hazard(s) identification

### Hazard Classification

#### Health Hazards

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Respiratory sensitizer	Category 1
Skin sensitizer	Category 1

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Specific Target Organ Toxicity - Repeated Exposure      Category 1

#### **Environmental Hazards**

Acute hazards to the aquatic environment      Category 3

Chronic hazards to the aquatic environment      Category 3

#### **Label Elements**

##### **Hazard Symbol:**



**Signal Word:**      Danger

**Hazard Statement:**      H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317: May cause an allergic skin reaction.  
H372: Causes damage to organs through prolonged or repeated exposure.  
H412: Harmful to aquatic life with long lasting effects.

##### **Precautionary Statements**

**Prevention:**      P264: Wash thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P284: [In case of inadequate ventilation] wear respiratory protection.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P260: Do not breathe dust/fume/gas/mist/vapors/spray.  
P270: Do not eat, drink or smoke when using this product.  
P273: Avoid release to the environment.



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**Response:**

P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P310: Immediately call a POISON CENTER/doctor.  
P321: Specific treatment (see on this label).  
P363: Wash contaminated clothing before reuse.

**Disposal:**

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Other hazards which do not result in GHS classification:**

None.

### 3. Composition/information on ingredients

**Mixtures**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	No data available.	25655-41-8	10%
Potassium iodide (KI)	No data available.	7681-11-0	1.9%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures



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<b>General information:</b>	Causes serious eye damage. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. If medical advice is needed, have product container or label at hand. Get immediate medical advice/attention.
<b>Ingestion:</b>	If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Get medical attention immediately.
<b>Inhalation:</b>	Get medical attention if any discomfort continues. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.
<b>Skin Contact:</b>	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.
<b>Eye contact:</b>	Important! Immediately rinse with water for 60 minutes. Get medical attention immediately.
<b>Most important symptoms/effects, acute and delayed</b>	
<b>Symptoms:</b>	Symptoms may be delayed.
<b>Hazards:</b>	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes serious eye damage. Causes skin irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	
<b>Treatment:</b>	Get immediate medical advice/attention. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

<b>5. Fire-fighting measures</b>
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**General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, fog, CO<sub>2</sub>, dry chemical, or alcohol resistant foam.

**Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.

**Specific hazards arising from the chemical:** Fire or excessive heat may produce hazardous decomposition products.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No unusual fire or explosion hazards noted.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

<b>6. Accidental release measures</b>
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<b>Personal precautions, protective equipment and emergency procedures:</b>	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wash thoroughly after dealing with a spillage. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.
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<b>Methods and material for containment and cleaning up:</b>	Stop leak if possible without any risk. Absorb spillage with suitable absorbent material. Collect for salvage or disposal. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.
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**Environmental  
Precautions:**

Do not release into the environment. Environmental manager must be informed of all major spillages.

## 7. Handling and storage

### Handling

**Technical measures (e.g.  
Local and general  
ventilation):**

Adequate ventilation should be provided whenever the material is heated or mists are generated.

**Safe handling advice:**

Wash at the end of each work shift and before eating, smoking and using the toilet. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes and avoid contact with skin and clothing. Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

**Contact avoidance  
measures:**

No data available.

**Hygiene measures:**

Do not eat, drink or smoke when using the product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid contact with skin. Do not breathe dust/fume/gas/mist/vapors/spray.

### Storage

**Safe storage conditions:**

Store in tightly closed original container in a dry, cool and well-ventilated place.

**Safe packaging materials:**

No data available.

**Storage Temperature:**

No data available.

## 8. Exposure controls/personal protection





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## Control Parameters

### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Potassium iodide (KI) - Particulate.	AN ESL	5 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	50 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
Potassium iodide (KI) - Inhalable fraction and vapor.	TWA	0.01 ppm	US. ACGIH Threshold Limit Values, as amended (12 2010)

### Appropriate Engineering Controls

Adequate ventilation should be provided whenever the material is heated or mists are generated.

### Individual protection measures, such as personal protective equipment

- General information:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
- Eye/face protection:** Chemical goggles and face shield are recommended.
- Skin Protection**
- Hand Protection:** Chemical resistant gloves
- Other:** Wear a lab coat or similar protective clothing.
- Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
- Hygiene measures:** Do not eat, drink or smoke when using the product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid contact with skin. Do not breathe dust/fume/gas/mist/vapors/spray.



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## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	According to product specification.

<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	No data available.

<b>Flash Point:</b>	Not applicable
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.

### Upper/lower limit on flammability or explosive limits

<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.

<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	No data available.

### Solubility(ies)

<b>Solubility in water:</b>	Completely Soluble
<b>Solubility (other):</b>	No data available.

<b>Partition coefficient (n-octanol/water):</b>	No data available.
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<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	Not determined.



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## 10. Stability and reactivity

<b>Reactivity:</b>	Product is not reactive under normal conditions and recommended use. Stable
<b>Chemical Stability:</b>	No data available.
<b>Possibility of hazardous reactions:</b>	Stable; however, may decompose if heated. None under normal conditions.
<b>Conditions to avoid:</b>	Avoid exposure to high temperatures or direct sunlight.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	By heating and fire, harmful vapors/gases may be formed.

## 11. Toxicological information

### Information on likely routes of exposure

**Ingestion:** Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

**Inhalation:** No data available.

**Skin Contact:** Causes skin irritation. Prolonged or repeated contact may cause skin sensitization in susceptible individuals.

**Eye contact:** May cause chemical eye burns.

### Symptoms related to the physical, chemical and toxicological characteristics

**Ingestion:** No data available.

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.



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## Information on toxicological effects

### Acute toxicity (list all possible routes of exposure)

**Oral**  
**Product:** ATEmix: 26,315.79 mg/kg

**Dermal**  
**Product:** No data available.

**Inhalation**  
**Product:** No data available.

**Repeated dose toxicity**  
**Product:** No data available.

**Specified substance(s):**  
Potassium iodide (KI) LOAEL (Rat(Male), Oral, 19 Weeks): 1,000 ppm(m) Oral Experimental result, Weight of Evidence study  
LOAEL (Rat(Female, Male), Oral): 100 mg/l Oral Experimental result, Weight of Evidence study  
NOAEL (Human(Female, Male), Oral): 0.01 mg/kg Oral Experimental result, Key study  
LOAEL (Rat(Male), Oral, 28 d): 500 mg/kg Oral Experimental result, Weight of Evidence study  
LOAEL (Rat, Oral, 12 Weeks): 70 mg/kg Oral Experimental result, Supporting study

**Skin Corrosion/Irritation**  
**Product:** No data available.

**Specified substance(s):**  
Potassium iodide (KI) in vivo (Rabbit): Moderately irritating Experimental result, Key study

**Serious Eye Damage/Eye Irritation**  
**Product:** No data available.



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**Respiratory or Skin Sensitization**

**Product:** No data available.

**Specified substance(s):**

Potassium iodide (KI) Skin sensitization:, in vivo (Human): Non sensitising

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.



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**Other effects:** No data available.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** Harmful to aquatic organisms.

##### Aquatic Invertebrates

**Product:** Harmful to aquatic organisms.

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Specified substance(s):

Potassium iodide (KI) LC 100 (Oncorhynchus mykiss, 22 d): 166,002.8 mg/l  
Experimental result, Key study

##### Aquatic Invertebrates

**Product:** No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

### Persistence and Degradability

#### Biodegradation

**Product:** No data available.

#### Specified substance(s):



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Potassium iodide (KI) 50 % (3,240 h) Sediment Estimated by calculation, Key study  
50 % (360 h) Detected in water. Estimated by calculation, Key study  
50 % (360 h) Sediment Estimated by calculation, Key study  
50 % (720 h) Soil Estimated by calculation, Key study

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Specified substance(s):**

Potassium iodide (KI) Various, Bioconcentration Factor (BCF): 2.27 Aquatic sediment  
Estimated by calculation, Key study

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer,  
compd. with iodine

Potassium iodide (KI) No data available.

**Other adverse effects:** No data available.

**13. Disposal considerations**

**General information:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.



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**Contaminated Packaging:** No data available.

#### **14. Transport information**

<b>DOTUN Number:</b>	Not regulated.
<b>UN Proper Shipping Name:</b>	Not regulated.
<b>Transport Hazard Class(es)</b>	
Class:	Not regulated.
Label(s):	Not regulated.
<b>Packing Group:</b>	Not regulated.
<b>Marine Pollutant:</b>	Not regulated.
<b>Limited quantity</b>	Not regulated.
<b>Excepted quantity</b>	Not regulated.
<b>Special precautions for user:</b>	Not regulated.

#### **IMDG**

<b>UN Number:</b>	Not regulated.
<b>UN Proper Shipping Name:</b>	Not regulated.
<b>Transport Hazard Class(es)</b>	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
EmS No.:	Not regulated.
<b>Packing Group:</b>	Not regulated.
<b>Environmental Hazards</b>	
Marine Pollutant:	Not regulated.
<b>Special precautions for user:</b>	Not regulated.





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## **IATA**

UN Number:	Not regulated.
Proper Shipping Name:	Not regulated.
Transport Hazard Class(es):	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards	
Marine pollutant:	Not regulated.

Special precautions for user: Not regulated.

## **15. Regulatory information**

### **US Federal Regulations**

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

#### **US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

#### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

None present or none present in regulated quantities.

#### **CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

#### **Hazard categories**

Skin Corrosion or Irritation, Serious eye damage or eye irritation, Respiratory or Skin Sensitization, Specific target organ toxicity (single or repeated exposure)



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**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

None present or none present in regulated quantities.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

**US. New Jersey Worker and Community Right-to-Know Act**

No ingredient regulated by NJ Right-to-Know Law present.

**US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

No ingredient regulated by PA Right-to-Know Law present.

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

<b>16. Other information, including date of preparation or last revision</b>
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**Issue Date:** 03/18/2021

**Version #:** 2.1



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**Revision Information:**

**Further Information:** No data available.

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## 1. Identification

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
0333275BJAA	Gram Safranin	No data available

### Other means of identification

SDS number: 088100177508

### Recommended use and restriction on use

**Recommended use:** Laboratory Chemicals

**Restrictions on use:** None known.

### Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

Company Name: BD, Integrated Diagnostic Solutions  
Address: 7 Loveton Circle  
Sparks, MD 21152 USA  
Telephone: 1 844 823 5433  
Fax: not available  
Contact Person: Tech Services

**Emergency telephone number:** CHEMTREC 1 800 424 9300

## 2. Hazard(s) identification

### Hazard Classification

#### Physical Hazards

Flammable liquids Category 3

### Label Elements

**Hazard Symbol:**



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**Signal Word:** Warning

**Hazard Statement:** H226: Flammable liquid and vapor.

**Precautionary Statements**

**Prevention:** P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P240: Ground and bond container and receiving equipment.  
P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.  
P242: Use non-sparking tools.  
P243: Take action to prevent static discharges.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P370+P378: In case of fire: Use water spray, fog, CO<sub>2</sub>, dry chemical, or alcohol resistant foam.

**Storage:** P403: Store in a well-ventilated place.  
P235: Keep cool.

**Disposal:** P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.



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**Other hazards which do not result in GHS classification:**

FK: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.  
Spark: Sparks may ignite liquid and vapor.  
H241: May cause flash fire or explosion.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Ethanol	No data available.	64-17-5	19%
Methanol	No data available.	67-56-1	1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

**General information:**

Get medical attention if symptoms occur.

**Ingestion:**

Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

**Inhalation:**

Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

**Skin Contact:**

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

**Eye contact:**

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

**Most important symptoms/effects, acute and delayed**

**Symptoms:**

No data available.

**Indication of immediate medical attention and special treatment needed**



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**Treatment:** No data available.

## 5. Fire-fighting measures

**General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool.

### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** Not applicable

**Specific hazards arising from the chemical:** Fire or excessive heat may produce hazardous decomposition products.

### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** No unusual fire or explosion hazards noted.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

**Methods and material for containment and cleaning up:** Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.



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**Environmental  
Precautions:**

Avoid release to the environment.

## 7. Handling and storage

### Handling

**Technical measures (e.g.  
Local and general  
ventilation):**

No special requirements under ordinary conditions of use and with adequate ventilation.

**Safe handling advice:**

When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

**Contact avoidance  
measures:**

No data available.

**Hygiene measures:**

Observe good industrial hygiene practices.

### Storage

**Safe storage conditions:**

Store in a cool, dry place. Keep container tightly closed.

**Safe packaging materials:**

No data available.

**Storage Temperature:**

No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Ethanol	TWA	1,000 ppm 1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	1,000 ppm 1,900 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	AN ESL	1,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental





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			Quality), as amended (12 2010)
	ST ESL	10,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL	1,880 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	18,800 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	TWA PEL	1,000 ppm 1,900 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	STEL	1,000 ppm	US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	1,000 ppm 1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	IDLH	3,300 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	LEL	3.3 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	PEL	1,000 ppm 1,900 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Methanol	STEL	250 ppm 325 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	200 ppm 260 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	STEL	250 ppm 325 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	TWA	200 ppm 260 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	ST ESL	2,620 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL	200 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL	262 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	2,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	STEL	250 ppm 325 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)



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	TWA PEL	200 ppm 260 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	Ceiling	1,000 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	STEL	250 ppm	US. ACGIH Threshold Limit Values, as amended (12 2010)
	TWA	200 ppm	US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	200 ppm 260 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	STEL	250 ppm 325 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	PEL	200 ppm 260 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	IDLH	6,000 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)

#### Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Methanol (methanol: Sampling time: End of shift.)	15 mg/l (Urine)	ACGIH BEI (03 2013)

#### Appropriate Engineering Controls

No special requirements under ordinary conditions of use and with adequate ventilation.

#### Individual protection measures, such as personal protective equipment

**General information:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

#### Skin Protection

**Hand Protection:** Chemical resistant gloves Suitable gloves can be recommended by the glove supplier. Wash hands after contact.

**Other:** Wear a lab coat or similar protective clothing.



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**Respiratory  
Protection:**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**Hygiene measures:**

Observe good industrial hygiene practices.

## 9. Physical and chemical properties

### Appearance

**Physical state:**

liquid

**Form:**

liquid

**Color:**

According to product specification.

**Odor:**

Characteristic

**Odor threshold:**

No data available.

**pH:**

No data available.

**Melting point/freezing point:**

No data available.

**Initial boiling point and boiling  
range:**

79 °C

**Flash Point:**

38.9 °C

**Evaporation rate:**

No data available.

**Flammability (solid, gas):**

No data available.

**Upper/lower limit on flammability or explosive limits**

**Flammability limit - upper (%):**

No data available.

**Flammability limit - lower (%):**

No data available.

**Explosive limit - upper:**

No data available.

**Explosive limit - lower:**

No data available.

**Vapor pressure:**

No data available.

**Vapor density:**

No data available.

**Relative density:**

No data available.

**Solubility(ies)**

**Solubility in water:**

Completely Soluble

**Solubility (other):**

No data available.

**Partition coefficient (n-  
octanol/water):**

No data available.



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**Auto-ignition temperature:** No data available.  
**Decomposition temperature:** No data available.  
**Viscosity:** Not determined.

## 10. Stability and reactivity

**Reactivity:** Stable under normal temperature conditions and recommended use.

**Chemical Stability:** Material is stable under normal conditions.

**Possibility of hazardous reactions:** Not determined.

**Conditions to avoid:** Avoid exposure to high temperatures or direct sunlight.

**Incompatible Materials:** Metals. Water reactive material.

**Hazardous Decomposition Products:** Stable; however, may decompose if heated.

## 11. Toxicological information

**General information:** No data on possible toxicity effects have been found.

### Information on likely routes of exposure

**Ingestion:** No harmful effects expected in amounts likely to be ingested by accident.

**Inhalation:** Limited inhalation hazard at normal work temperatures.

**Skin Contact:** Negligible irritation to skin at ambient temperatures.

**Eye contact:** Elevated temperatures or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.

### Symptoms related to the physical, chemical and toxicological characteristics

**Ingestion:** No data available.



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**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

#### **Information on toxicological effects**

##### **Acute toxicity (list all possible routes of exposure)**

###### **Oral**

**Product:** ATEmix: 10,000 mg/kg

###### **Dermal**

**Product:** ATEmix: 30,000 mg/kg

###### **Inhalation**

**Product:** ATEmix: 300 mg/l

##### **Repeated dose toxicity**

**Product:** No data available.

##### **Specified substance(s):**

Ethanol Based on available data, the classification criteria are not met.  
NOAEL (Mouse(Female, Male), Inhalation, 7,202 - 7,373 h): 0.13 mg/l Inhalation Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study  
LOAEL (Rat(Female, Male), Oral, <= 90 d): 3 %(m) Oral Experimental result, Supporting study  
NOAEL (Monkey(Female, Male), Inhalation): 6.63 mg/l Inhalation Read-across from supporting substance (structural analogue or surrogate), Supporting study  
LOAEL (Monkey, Inhalation): 4 mg/l Inhalation Read-across from supporting substance (structural analogue or surrogate), Supporting study

Methanol NOAEL (Rat(Female, Male), Inhalation): 6.66 mg/l Inhalation Experimental result, Weight of Evidence study  
LOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 13.3 mg/l Inhalation



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Experimental result, Supporting study  
NOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 2.65 mg/l Inhalation  
Experimental result, Supporting study  
NOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 0.26 mg/l Inhalation  
Experimental result, Supporting study  
NOAEL (Rat(Female, Male), Inhalation, 7,318 - 7,496 h): 0.13 mg/l Inhalation  
Experimental result, Weight of Evidence study

#### **Skin Corrosion/Irritation**

**Product:** No data available.

**Specified substance(s):**

Ethanol	in vivo (Rabbit): Not irritant Experimental result, Key study
Methanol	in vivo (Rabbit): Not irritant Experimental result, Key study

#### **Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Specified substance(s):**

Ethanol	in vivo (Rabbit, 24 - 72 hrs): Not irritating EU
Methanol	in vivo (Rabbit, 24 - 72 hrs): Not irritating

#### **Respiratory or Skin Sensitization**

**Product:** No data available.

**Specified substance(s):**

Ethanol	Based on available data, the classification criteria are not met. Skin sensitization:, in vivo (Guinea pig): Non sensitising
Methanol	Skin sensitization:, in vivo (Guinea Pig): Non sensitising

#### **Carcinogenicity**

**Product:** No data available.

**Specified substance(s):**

Ethanol	Based on available data, the classification criteria are not met.
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**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Specified substance(s):**

Ethanol Based on available data, the classification criteria are not met.

**In vivo**

**Product:** No data available.

**Specified substance(s):**

Ethanol Based on available data, the classification criteria are not met.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s):**

Ethanol Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specified substance(s):**

Ethanol Based on available data, the classification criteria are not met.

Methanol Oral: Nervous System - Causes damage to organs.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Specified substance(s):**

Ethanol Based on available data, the classification criteria are not met.

**Aspiration Hazard**



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**Product:** No data available.

**Other effects:** No data available.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** No negative effects on the aquatic environment are known.

##### Aquatic Invertebrates

**Product:** No negative effects on the aquatic environment are known.

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No negative effects on the aquatic environment are known.

##### Aquatic Invertebrates

**Product:** No negative effects on the aquatic environment are known.

##### Toxicity to Aquatic Plants

**Product:** No negative effects on the aquatic environment are known.

### Persistence and Degradability

#### Biodegradation

**Product:** Expected to be readily biodegradable.

#### BOD/COD Ratio

**Product:** No data available.

### Bioaccumulative potential

#### Bioconcentration Factor (BCF)

**Product:** No data available.





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**Specified substance(s):**

Ethanol	Potential to bioaccumulate is low. Leuciscus idus, Bioconcentration Factor (BCF): < 10 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Supporting study Cyprinus carpio, Bioconcentration Factor (BCF): 1 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Supporting study Leuciscus idus, Bioconcentration Factor (BCF): 0.2 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Not specified Cyprinus carpio, Bioconcentration Factor (BCF): 3 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Supporting study
Methanol	Leuciscus idus, Bioconcentration Factor (BCF): < 10 Aquatic sediment Experimental result, Supporting study Cyprinus carpio, Bioconcentration Factor (BCF): 4.5 Aquatic sediment Experimental result, Supporting study Cyprinus carpio, Bioconcentration Factor (BCF): 1 Aquatic sediment Experimental result, Supporting study Cyprinus carpio, Bioconcentration Factor (BCF): 3 Aquatic sediment Experimental result, Supporting study Green algae (Chlorella fusca vacuolata), Bioconcentration Factor (BCF): 28,400 (Static)

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Specified substance(s):**

Methanol Log Kow: -0.77

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

Ethanol soil - Very mobile liquid  
Methanol No data available.

**Other adverse effects:** The product is not expected to be hazardous to the environment.



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### 13. Disposal considerations

<b>General information:</b>	Dispose of waste and residues in accordance with local authority requirements.
<b>Disposal instructions:</b>	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Contaminated Packaging:</b>	No data available.

### 14. Transport information

#### DOT

UN Number:	UN 3316
UN Proper Shipping Name:	Chemical kits
Transport Hazard Class(es)	
Class:	9
Label(s):	9
Packing Group:	III
Marine Pollutant:	No
Special precautions for user:	Not regulated.

#### IMDG

UN Number:	UN 3316
UN Proper Shipping Name:	CHEMICAL KIT
Transport Hazard Class(es)	
Class:	9
Subsidiary risk:	9
EmS No.:	F-A, S-P
Packing Group:	III
Environmental Hazards	
Marine Pollutant:	No
Special precautions for user:	Not regulated.



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## **IATA**

UN Number:	UN 3316
Proper Shipping Name:	Chemical kit
Transport Hazard Class(es):	
Class:	9
Subsidiary risk:	9MI
Packing Group:	III
Environmental Hazards	
Marine pollutant:	No

Special precautions for user: Not regulated.

## **15. Regulatory information**

### **US Federal Regulations**

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

#### **US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

#### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

None present or none present in regulated quantities.

#### **CERCLA Hazardous Substance List (40 CFR 302.4):**

##### **Chemical Identity**

RCRA HAZARDOUS WASTE NO. D001  
METHANOL

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

##### **Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Hazards Not Otherwise Classified (HNOC)



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**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

None present or none present in regulated quantities.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

<u>Chemical Identity</u>	<u>% by weight</u>
Methanol	1.0%

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**



**WARNING:** This product can expose you to chemicals including, Ethanol which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

This product can expose you to chemicals including, Methanol which is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**US. New Jersey Worker and Community Right-to-Know Act**

**Chemical Identity**

Ethanol  
Methanol

**US. Massachusetts RTK - Substance List**

**Chemical Identity**

Ethanol

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**

Ethanol



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## **US. Rhode Island RTK**

### **Chemical Identity**

Ethanol

## **16. Other information, including date of preparation or last revision**

**Issue Date:** 03/18/2021

**Version #:** 2.2

**Revision Information:**

**Source of information:** European Chemicals Agency (ECHA): Information on Chemicals.

**Further Information:** No data available.

**Disclaimer:** Disclaimer:  
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# SAFETY DATA SHEET

## 1. Identification

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
0333075BJAA	GRAM DECOLORIZER 250ML	No data available

### Other means of identification

SDS number: 088100177507

### Recommended use and restriction on use

**Recommended use:** Laboratory Chemicals

**Restrictions on use:** None known.

### Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

Company Name: BD, Integrated Diagnostic Solutions  
Address: 7 Loveton Circle  
Sparks, MD 21152 USA  
Telephone: 1 844 823 5433  
Fax: not available  
Contact Person: Tech Services

**Emergency telephone number:** CHEMTREC 1 800 424 9300

## 2. Hazard(s) identification

### Hazard Classification

#### Physical Hazards

Flammable liquids Category 2

#### Health Hazards

Serious Eye Damage/Eye Irritation Category 2A

Specific Target Organ Toxicity - Single Exposure Category 3

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## Label Elements

### Hazard Symbol:



**Signal Word:** Danger

**Hazard Statement:** H225: Highly flammable liquid and vapor.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.

### Precautionary Statements

**Prevention:** P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240: Ground and bond container and receiving equipment.  
P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.  
P242: Use non-sparking tools.  
P243: Take action to prevent static discharges.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P264: Wash thoroughly after handling.  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P271: Use only outdoors or in a well-ventilated area.

**Response:** P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].



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P312: Call a POISON CENTER/doctor if you feel unwell.  
P370+P378: In case of fire: Use water spray, fog, CO<sub>2</sub>, dry chemical, or alcohol resistant foam.

**Storage:** P403: Store in a well-ventilated place.  
P235: Keep cool.  
P233: Keep container tightly closed.  
P405: Store locked up.

**Disposal:** P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Other hazards which do not result in GHS classification:**

FK: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.  
Spark: Sparks may ignite liquid and vapor.  
H241: May cause flash fire or explosion.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2-Propanol	No data available.	67-63-0	75%
2-Propanone	No data available.	67-64-1	25%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

**General information:** Get medical attention if symptoms occur.

**Ingestion:** Get medical attention if symptoms occur.

**Inhalation:** Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.





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**Skin Contact:** Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** No data available.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** No data available.

<b>5. Fire-fighting measures</b>
----------------------------------

**General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, fog, CO<sub>2</sub>, dry chemical, or alcohol resistant foam.

**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical:** None known.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No unusual fire or explosion hazards noted.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.



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## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	No special precautionary health measures should be needed under anticipated conditions of use.
<b>Methods and material for containment and cleaning up:</b>	No specific clean-up procedure noted.
<b>Environmental Precautions:</b>	Avoid release to the environment.

## 7. Handling and storage

### Handling

<b>Technical measures (e.g. Local and general ventilation):</b>	No special requirements under ordinary conditions of use and with adequate ventilation.
<b>Safe handling advice:</b>	When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.
<b>Contact avoidance measures:</b>	No data available.
<b>Hygiene measures:</b>	Observe good industrial hygiene practices.

### Storage

<b>Safe storage conditions:</b>	Store in a cool, dry place. Keep container tightly closed.
<b>Safe packaging materials:</b>	No data available.
<b>Storage Temperature:</b>	No data available.



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## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
2-Propanol	TWA	400 ppm 980 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	STEL	500 ppm 1,225 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	400 ppm 980 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	500 ppm 1,225 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL	200 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	2,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL	492 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	4,920 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	TWA PEL	400 ppm 980 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	STEL	500 ppm 1,225 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	TWA	200 ppm	US. ACGIH Threshold Limit Values, as amended (12 2010)
	STEL	400 ppm	US. ACGIH Threshold Limit Values, as amended (12 2010)
	STEL	500 ppm 1,225 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	REL	400 ppm 980 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	PEL	400 ppm 980 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	LEL	2.0 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	IDLH	2,000 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended



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			(10 2017)
2-Propanone	STEL	500 ppm	US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values, as amended (12 2010)
	TWA	200 ppm	US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values, as amended (12 2010)
	TWA	750 ppm 1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	STEL	1,000 ppm 2,400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	STEL	1,000 ppm 2,400 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	TWA	750 ppm 1,800 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	ST ESL	2,500 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL	250 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	5,900 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL	590 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	TWA PEL	500 ppm 1,200 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	STEL	750 ppm 1,780 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	Ceiling	3,000 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	TWA	250 ppm	US. ACGIH Threshold Limit Values, as amended (03 2015)
	STEL	500 ppm	US. ACGIH Threshold Limit Values, as amended (03 2015)
	REL	250 ppm 590 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	PEL	1,000 ppm 2,400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	LEL	2.5 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	IDLH	2,500 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended



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			(10 2017)
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### Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
2-Propanol (acetone: Sampling time: End of shift at end of work week.)	40 mg/l (Urine)	ACGIH BEI (03 2013)
2-Propanone (acetone: Sampling time: End of shift.)	25 mg/l (Urine)	ACGIH BEI (03 2015)

### Appropriate Engineering Controls

No special requirements under ordinary conditions of use and with adequate ventilation.

### Individual protection measures, such as personal protective equipment

<b>General information:</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
<b>Eye/face protection:</b>	Wear safety glasses with side shields (or goggles).
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Chemical resistant gloves
<b>Other:</b>	Wear a lab coat or similar protective clothing.
<b>Respiratory Protection:</b>	Respiratory protection not required.
<b>Hygiene measures:</b>	Observe good industrial hygiene practices.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	According to product specification.



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<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	56.1 - 82 °C
<b>Flash Point:</b>	-6.7 °C
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Completely Soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	Not determined.

## 10. Stability and reactivity

<b>Reactivity:</b>	Stable under normal temperature conditions and recommended use.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Not known.



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<b>Conditions to avoid:</b>	Avoid exposure to high temperatures or direct sunlight.
<b>Incompatible Materials:</b>	Strong oxidizers.
<b>Hazardous Decomposition Products:</b>	Not known.

## 11. Toxicological information

**General information:** No data on possible toxicity effects have been found.

### Information on likely routes of exposure

**Ingestion:** No harmful effects expected in amounts likely to be ingested by accident.

**Inhalation:** Limited inhalation hazard at normal work temperatures.

**Skin Contact:** Negligible irritation to skin at ambient temperatures.

**Eye contact:** Do not get in eyes.

### Symptoms related to the physical, chemical and toxicological characteristics

**Ingestion:** No specific symptoms noted.

**Inhalation:** No specific symptoms noted.

**Skin Contact:** No specific symptoms noted.

**Eye contact:** No specific symptoms noted.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

**Oral Product:** ATEmix: 12,000 mg/kg

**Dermal Product:** No data available.

**Inhalation**



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**Product:** No data available.

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s):**

2-Propanol	NOAEL (Rat, Inhalation, $\geq$ 104 Weeks): 5,000 ppm(m) Inhalation Experimental result, Key study
2-Propanone	NOAEL (Mouse(Male), Oral, 13 Weeks): 20,000 ppm(m) Oral Experimental result, Key study NOAEL (Mouse(female), Oral, 13 Weeks): 20,000 ppm(m) Oral Experimental result, Key study LOAEL (Rat(Female, Male), Oral, 30 - 90 d): 500 mg/kg Oral Not specified, Not specified LOAEL (Rat(Male), Oral, 13 Weeks): 20,000 ppm(m) Oral Experimental result, Key study LOAEL (Mouse(Male), Oral, 14 d): 20,000 ppm(m) Oral Experimental result, Supporting study

**Skin Corrosion/Irritation**

**Product:** No data available.

**Specified substance(s):**

2-Propanol	in vivo (Rabbit): Not Classified Experimental result, Key study
2-Propanone	in vivo (Guinea pig): Not irritant Experimental result, Weight of Evidence study in vivo (Guinea pig): Not irritant Experimental result, Weight of Evidence study in vivo (Rabbit): Not irritant Experimental result, Supporting study

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.





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**Specified substance(s):**

2-Propanol	in vivo (Rabbit, 1 d): Category 2: Causes serious eye irritation CLP (1272/2008)
2-Propanone	Irritating Exposure for 15 minutes to 1660 ppm causes irritation of eyes

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Specified substance(s):**

2-Propanol	Skin sensitization:, in vivo (Guinea Pig): Non sensitising
2-Propanone	Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Mouse): Non sensitising

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.



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#### **Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

#### **Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

#### **Aspiration Hazard**

**Product:** No data available.

**Other effects:** None known.

## **12. Ecological information**

### **Ecotoxicity:**

#### **Acute hazards to the aquatic environment:**

##### **Fish**

**Product:** No negative effects on the aquatic environment are known.

##### **Aquatic Invertebrates**

**Product:** No negative effects on the aquatic environment are known.

#### **Chronic hazards to the aquatic environment:**

##### **Fish**

**Product:** No negative effects on the aquatic environment are known.

##### **Aquatic Invertebrates**

**Product:** No negative effects on the aquatic environment are known.

##### **Toxicity to Aquatic Plants**

**Product:** No negative effects on the aquatic environment are known.

### **Persistence and Degradability**

#### **Biodegradation**

**Product:** Expected to be readily biodegradable.

#### **BOD/COD Ratio**



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**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Specified substance(s):**

2-Propanone Bioconcentration Factor (BCF): 3 Aquatic sediment Estimated by calculation, Supporting study  
Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment Experimental result, Not specified

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** Log Kow: No data available.

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

2-Propanol No data available.  
2-Propanone No data available.

**Other adverse effects:** The product is not expected to be hazardous to the environment.

<b>13. Disposal considerations</b>
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**General information:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal instructions:** No specific disposal method required.

**Contaminated Packaging:** No data available.



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## 14. Transport information

### DOT

UN Number:	UN 3316
UN Proper Shipping Name:	Chemical kits
Transport Hazard Class(es)	
Class:	9
Label(s):	9
Packing Group:	II
Marine Pollutant:	No
Special precautions for user:	Not regulated.

### IMDG

UN Number:	UN 3316
UN Proper Shipping Name:	CHEMICAL KIT
Transport Hazard Class(es)	
Class:	9
Subsidiary risk:	9
EmS No.:	F-A, S-P
Packing Group:	II
Environmental Hazards	
Marine Pollutant:	No
Special precautions for user:	Not regulated.

### IATA

UN Number:	UN 3316
Proper Shipping Name:	Chemical kit
Transport Hazard Class(es):	
Class:	9
Subsidiary risk:	9MI
Packing Group:	II
Environmental Hazards	
Marine pollutant:	No
Special precautions for user:	Not regulated.



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## 15. Regulatory information

### US Federal Regulations

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

#### **US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

#### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

None present or none present in regulated quantities.

#### **CERCLA Hazardous Substance List (40 CFR 302.4):**

##### **Chemical Identity**

RCRA HAZARDOUS WASTE NO. D001  
2-PROPANONE

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

##### **Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Serious eye damage or eye irritation,  
Specific target organ toxicity (single or repeated exposure), Hazards Not Otherwise  
Classified (HNOC)

#### **US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

None present or none present in regulated quantities.

#### **US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

<b><u>Chemical Identity</u></b>	<b><u>% by weight</u></b>
2-Propanol	1.0%

#### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

#### **Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**



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None present or none present in regulated quantities.

## **US State Regulations**

### **US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

### **US. New Jersey Worker and Community Right-to-Know Act**

#### **Chemical Identity**

2-Propanol  
2-Propanone

### **US. Massachusetts RTK - Substance List**

#### **Chemical Identity**

2-Propanol  
2-Propanone

### **US. Pennsylvania RTK - Hazardous Substances**

#### **Chemical Identity**

2-Propanol  
2-Propanone

### **US. Rhode Island RTK**

#### **Chemical Identity**

2-Propanol  
2-Propanone

<b>16. Other information, including date of preparation or last revision</b>
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<b>Issue Date:</b>	09/30/2020
<b>Version #:</b>	2.2
<b>Revision Information:</b>	No data available.
<b>Further Information:</b>	No data available.



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# SAFETY DATA SHEET

## 1. Identification

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
0332975BJAA	Gram Crystal Violet	No data available

### Other means of identification

SDS number: 088100177506

### Recommended use and restriction on use

**Recommended use:** Laboratory Chemicals

**Restrictions on use:** None known.

### Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

Company Name: BD, Integrated Diagnostic Solutions  
Address: 7 Loveton Circle  
Sparks, MD 21152 USA  
Telephone: 1 844 823 5433  
Fax: not available  
Contact Person: Tech Services

**Emergency telephone number:** CHEMTREC 1 800 424 9300

## 2. Hazard(s) identification

### Hazard Classification

#### Physical Hazards

Flammable liquids Category 3

#### Health Hazards

Serious Eye Damage/Eye Category 2A

Irritation

Carcinogenicity Category 2

#### Environmental Hazards



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Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

## Label Elements

### Hazard Symbol:



**Signal Word:** Warning

**Hazard Statement:** H226: Flammable liquid and vapor.  
H319: Causes serious eye irritation.  
H351: Suspected of causing cancer.  
H412: Harmful to aquatic life with long lasting effects.

### Precautionary Statements

**Prevention:** P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P240: Ground and bond container and receiving equipment.  
P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.  
P242: Use non-sparking tools.  
P243: Take action to prevent static discharges.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P264: Wash thoroughly after handling.  
P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P281: Use personal protective equipment as required.  
P273: Avoid release to the environment.



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<b>Response:</b>	<p>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337+P313: If eye irritation persists: Get medical advice/attention.</p> <p>P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].</p> <p>P308+P313: IF exposed or concerned: Get medical advice/attention.</p> <p>P370+P378: In case of fire: Use water spray, fog, CO2, dry chemical, or alcohol resistant foam.</p>
<b>Storage:</b>	<p>P403: Store in a well-ventilated place.</p> <p>P235: Keep cool.</p> <p>P405: Store locked up.</p>
<b>Disposal:</b>	<p>P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.</p>
<b>Other hazards which do not result in GHS classification:</b>	<p>FK: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.</p> <p>Spark: Sparks may ignite liquid and vapor.</p> <p>H241: May cause flash fire or explosion.</p>

<b>3. Composition/information on ingredients</b>
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## Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2-Propanol	No data available.	67-63-0	5%
Methanol	No data available.	67-56-1	2.5%
Ethanol	No data available.	64-17-5	2.5%
Phenol	No data available.	108-95-2	0.4%
Methanaminium, N-[4-bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)	No data available.	548-62-9	0.3%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

<b>General information:</b>	Causes serious eye irritation. Suspected of causing cancer.
<b>Ingestion:</b>	If swallowed, rinse mouth with water (only if the person is conscious). DO NOT induce vomiting. Get medical attention immediately.
<b>Inhalation:</b>	Get medical attention if any discomfort continues.
<b>Skin Contact:</b>	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.
<b>Eye contact:</b>	Important! Immediately rinse with water for at least 15 minutes. Get medical attention immediately.

### Most important symptoms/effects, acute and delayed

<b>Symptoms:</b>	No data available.
<b>Hazards:</b>	Causes serious eye irritation. Suspected of causing cancer.

### Indication of immediate medical attention and special treatment needed



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**Treatment:** Get immediate medical advice/attention.

## 5. Fire-fighting measures

**General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.

### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Water spray, fog, CO<sub>2</sub>, dry chemical, or alcohol resistant foam.

**Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.

**Specific hazards arising from the chemical:** Fire or excessive heat may produce hazardous decomposition products.

### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** No unusual fire or explosion hazards noted.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wash thoroughly after dealing with a spillage. Contact local authorities in case of spillage to drain/aquatic environment.

**Methods and material for containment and cleaning up:** Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.



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**Environmental  
Precautions:**

Avoid release to the environment.

## 7. Handling and storage

### Handling

**Technical measures (e.g.  
Local and general  
ventilation):**

Adequate ventilation should be provided whenever the material is heated or mists are generated.

**Safe handling advice:**

Avoid contact with eyes. Eye wash facilities and emergency shower must be available when handling this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

**Contact avoidance  
measures:**

No data available.

**Hygiene measures:**

Avoid contact with eyes. Wash hands after contact. Observe good industrial hygiene practices.

### Storage

**Safe storage conditions:**

Store in tightly closed original container in a dry, cool and well-ventilated place.

**Safe packaging materials:**

No data available.

**Storage Temperature:**

No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
2-Propanol	TWA	400 ppm 980 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR



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			1910.1000), as amended (1989)
	STEL	500 ppm 1,225 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	400 ppm 980 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	500 ppm 1,225 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL	200 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	2,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL	492 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	4,920 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	TWA PEL	400 ppm 980 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	STEL	500 ppm 1,225 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	TWA	200 ppm	US. ACGIH Threshold Limit Values, as amended (12 2010)
	STEL	400 ppm	US. ACGIH Threshold Limit Values, as amended (12 2010)
	STEL	500 ppm 1,225 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	REL	400 ppm 980 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	PEL	400 ppm 980 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	LEL	2.0 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	IDLH	2,000 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
Methanol	STEL	250 ppm 325 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	200 ppm 260 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	STEL	250 ppm 325 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	TWA	200 ppm 260 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)



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	ST ESL	2,620 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL	200 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL	262 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	2,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	STEL	250 ppm 325 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	TWA PEL	200 ppm 260 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	Ceiling	1,000 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	STEL	250 ppm	US. ACGIH Threshold Limit Values, as amended (12 2010)
	TWA	200 ppm	US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	200 ppm 260 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	STEL	250 ppm 325 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	PEL	200 ppm 260 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	IDLH	6,000 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
Ethanol	TWA	1,000 ppm 1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	1,000 ppm 1,900 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	AN ESL	1,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	10,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL	1,880 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	18,800 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)



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	TWA PEL	1,000 ppm	1,900 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	1,000 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	IDLH	3,300 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	LEL		3.3 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	PEL	1,000 ppm	1,900 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Phenol	TWA	5 ppm	19 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	5 ppm	19 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	ST ESL		150 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
	AN ESL		19 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
	ST ESL		40 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
	AN ESL		5 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	TWA PEL	5 ppm	19 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	TWA	5 ppm		US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	5 ppm	19 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	Ceil_Time	15.6 ppm	60 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	IDLH	250 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	PEL	5 ppm	19 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)





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### Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
2-Propanol (acetone: Sampling time: End of shift at end of work week.)	40 mg/l (Urine)	ACGIH BEI (03 2013)
Methanol (methanol: Sampling time: End of shift.)	15 mg/l (Urine)	ACGIH BEI (03 2013)
Phenol (Phenol with hydrolysis: Sampling time: End of shift.)	250 mg/g (Creatinine in urine)	ACGIH BEI (03 2013)

### Appropriate Engineering Controls

Adequate ventilation should be provided whenever the material is heated or mists are generated.

### Individual protection measures, such as personal protective equipment

<b>General information:</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
<b>Eye/face protection:</b>	Wear safety glasses with side shields (or goggles).
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Chemical resistant gloves
<b>Other:</b>	Wear a lab coat or similar protective clothing.
<b>Respiratory Protection:</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
<b>Hygiene measures:</b>	Avoid contact with eyes. Wash hands after contact. Observe good industrial hygiene practices.

## 9. Physical and chemical properties



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## Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	According to product specification.
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	No data available.
<b>Flash Point:</b>	43.3 °C
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Completely Soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	Not determined.

## 10. Stability and reactivity

<b>Reactivity:</b>	Product is not reactive under normal conditions and recommended use.
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<b>Chemical Stability:</b>	No data available.
<b>Possibility of hazardous reactions:</b>	None under normal conditions.
<b>Conditions to avoid:</b>	Avoid exposure to high temperatures or direct sunlight.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	By heating and fire, harmful vapors/gases may be formed.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion:</b>	Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.
<b>Inhalation:</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin Contact:</b>	Negligible irritation to skin at ambient temperatures.
<b>Eye contact:</b>	Irritating to eyes.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.



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## Information on toxicological effects

### Acute toxicity (list all possible routes of exposure)

#### Oral

**Product:** ATEmix: 3,377.64 mg/kg

#### Dermal

**Product:** ATEmix: 10,344.83 mg/kg

#### Inhalation

**Product:** ATEmix: 120 mg/l

### Repeated dose toxicity

**Product:** No data available.

#### Specified substance(s):

2-Propanol NOAEL (Rat, Inhalation,  $\geq$  104 Weeks): 5,000 ppm(m)  
Inhalation Experimental result, Key study

Methanol NOAEL (Rat(Female, Male), Inhalation): 6.66 mg/l Inhalation  
Experimental result, Weight of Evidence study  
LOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 13.3 mg/l Inhalation  
Experimental result, Supporting study  
NOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 2.65 mg/l Inhalation  
Experimental result, Supporting study  
NOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 0.26 mg/l Inhalation  
Experimental result, Supporting study  
NOAEL (Rat(Female, Male), Inhalation, 7,318 - 7,496 h): 0.13  
mg/l Inhalation Experimental result, Weight of Evidence study

Ethanol Based on available data, the classification criteria are not met.  
NOAEL (Mouse(Female, Male), Inhalation, 7,202 - 7,373 h): 0.13  
mg/l Inhalation Read-across from supporting substance (structural  
analogue or surrogate), Weight of Evidence study  
LOAEL (Rat(Female, Male), Oral,  $\leq$  90 d): 3 %(m) Oral  
Experimental result, Supporting study  
NOAEL (Monkey(Female, Male), Inhalation): 6.63 mg/l Inhalation  
Read-across from supporting substance (structural analogue or  
surrogate), Supporting study



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LOAEL (Monkey, Inhalation): 4 mg/l Inhalation Read-across from supporting substance (structural analogue or surrogate), Supporting study

Phenol  
LOAEL (Rabbit, Dermal, 18 d): 260 mg/kg Dermal Experimental result, Key study  
NOAEL (Rabbit, Dermal, 18 d): 130 mg/kg Dermal Experimental result, Key study  
NOAEL (Rat(Female, Male), Oral, 103 Weeks): 5,000 ppm(m) Oral Experimental result, Weight of Evidence study  
NOAEL (Rat(Female, Male), Oral, 13 Weeks): 5,000 ppm(m) Oral Experimental result, Weight of Evidence study

#### **Skin Corrosion/Irritation**

**Product:** No data available.

##### **Specified substance(s):**

2-Propanol in vivo (Rabbit): Not Classified Experimental result, Key study

Methanol in vivo (Rabbit): Not irritant Experimental result, Key study

Ethanol  
in vivo (Rabbit): Not irritant Experimental result, Key study

#### **Serious Eye Damage/Eye Irritation**

**Product:** No data available.

##### **Specified substance(s):**

2-Propanol in vivo (Rabbit, 1 d): Category 2: Causes serious eye irritation CLP (1272/2008)

Methanol in vivo (Rabbit, 24 - 72 hrs): Not irritating

Ethanol in vivo (Rabbit, 24 - 72 hrs): Not irritating EU

#### **Respiratory or Skin Sensitization**

**Product:** No data available.



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**Specified substance(s):**

2-Propanol	Skin sensitization:, in vivo (Guinea Pig): Non sensitising
Methanol	Skin sensitization:, in vivo (Guinea Pig): Non sensitising
Ethanol	Based on available data, the classification criteria are not met. Skin sensitization:, in vivo (Guinea pig): Non sensitising

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s):**

Ethanol Based on available data, the classification criteria are not met.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Specified substance(s):**

Ethanol Based on available data, the classification criteria are not met.

**In vivo**

**Product:** No data available.

**Specified substance(s):**

Ethanol Based on available data, the classification criteria are not met.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s):**

Ethanol Based on available data, the classification criteria are not met.



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### Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.

**Specified substance(s):**

Methanol Oral: Nervous System - Causes damage to organs.

Ethanol Based on available data, the classification criteria are not met.

### Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

**Specified substance(s):**

Ethanol Based on available data, the classification criteria are not met.

### Aspiration Hazard

**Product:** No data available.

**Other effects:** No data available.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** No negative effects on the aquatic environment are known.

##### Aquatic Invertebrates

**Product:** No negative effects on the aquatic environment are known.

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No negative effects on the aquatic environment are known.

##### Aquatic Invertebrates

**Product:** No negative effects on the aquatic environment are known.

##### Toxicity to Aquatic Plants

**Product:** No negative effects on the aquatic environment are known.



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## Persistence and Degradability

### Biodegradation

**Product:** No data available.

**Specified substance(s):**

2-Propanol	53 % (5 d) Detected in water. Experimental result, Key study
Methanol	83 - 91 % (3 d) Sediment Experimental result, Supporting study 97 % Detected in water. Experimental result, Key study 71.5 % (5 d) Detected in water. Experimental result, Key study 82.7 % (5 d) Detected in water. Experimental result, Key study 69 % Detected in water. Experimental result, Key study
Ethanol	Readily biodegradable 12.9 % Detected in water. Experimental result, Supporting study 89 % (14 d) Detected in water. Experimental result, Supporting study 69 % Detected in water. Read-across from supporting substance (structural analogue or surrogate), Key study 45 % Detected in water. Experimental result, Supporting study
Methanaminium, N-[4-[bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)	3.6 % (28 d) Detected in water. Experimental result, Key study

### BOD/COD Ratio

**Product:** No data available.

### Bioaccumulative potential

#### Bioconcentration Factor (BCF)

**Product:** No data available.

**Specified substance(s):**





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Methanol	Leuciscus idus, Bioconcentration Factor (BCF): < 10 Aquatic sediment Experimental result, Supporting study Cyprinus carpio, Bioconcentration Factor (BCF): 4.5 Aquatic sediment Experimental result, Supporting study Cyprinus carpio, Bioconcentration Factor (BCF): 1 Aquatic sediment Experimental result, Supporting study Cyprinus carpio, Bioconcentration Factor (BCF): 3 Aquatic sediment Experimental result, Supporting study Green algae (Chlorella fusca vacuolata), Bioconcentration Factor (BCF): 28,400 (Static)
Ethanol	Potential to bioaccumulate is low. Leuciscus idus, Bioconcentration Factor (BCF): < 10 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Supporting study Cyprinus carpio, Bioconcentration Factor (BCF): 1 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Supporting study Leuciscus idus, Bioconcentration Factor (BCF): 0.2 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Not specified Cyprinus carpio, Bioconcentration Factor (BCF): 3 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Supporting study
Phenol	Pimephales promelas, Bioconcentration Factor (BCF): 4,300 Aquatic sediment Experimental result, Not specified

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Specified substance(s):**

2-Propanol	Log Kow: 0.05
Methanol	Log Kow: -0.77

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**



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2-Propanol	No data available.
Methanol	No data available.
Ethanol	soil - Very mobile liquid
Phenol	No data available.
Methanaminium, N-[4-[bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)	No data available.

**Other adverse effects:** No data available.

### 13. Disposal considerations

**General information:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal instructions:** Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Contaminated Packaging:** No data available.

### 14. Transport information

#### DOT

UN Number:	UN 3316
UN Proper Shipping Name:	Chemical kits
Transport Hazard Class(es)	
Class:	9
Label(s):	9
Packing Group:	III
Marine Pollutant:	No
Special precautions for user:	Not regulated.



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#### **IMDG**

UN Number:	UN 3316
UN Proper Shipping Name:	CHEMICAL KIT
Transport Hazard Class(es)	
Class:	9
Subsidiary risk:	9
EmS No.:	F-A, S-P
Packing Group:	III
Environmental Hazards	
Marine Pollutant:	No
Special precautions for user:	Not regulated.

#### **IATA**

UN Number:	UN 3316
Proper Shipping Name:	Chemical kit
Transport Hazard Class(es):	
Class:	9
Subsidiary risk:	9MI
Packing Group:	III
Environmental Hazards	
Marine pollutant:	No
Special precautions for user:	Not regulated.

### **15. Regulatory information**

#### **US Federal Regulations**

##### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

##### **US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

##### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

None present or none present in regulated quantities.



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#### **CERCLA Hazardous Substance List (40 CFR 302.4):**

##### **Chemical Identity**

RCRA HAZARDOUS WASTE NO. D001  
METHANOL  
RCRA HAZARDOUS WASTE NO. D001  
PHENOL

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

##### **Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Serious eye damage or eye irritation, Carcinogenicity, Hazards Not Otherwise Classified (HNOC)

#### **US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

None present or none present in regulated quantities.

#### **US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

<b><u>Chemical Identity</u></b>	<b><u>% by weight</u></b>
2-Propanol	1.0%
Methanol	1.0%

#### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

#### **Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

##### **Chemical Identity**

Phenol

#### **US State Regulations**

##### **US. California Proposition 65**



**WARNING:** This product can expose you to chemicals including, Ethanol which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.



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This product can expose you to chemicals including, Methanaminium, N-[4-[bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1) which is [are] known to the State of California to cause cancer.

This product can expose you to chemicals including, Methanol which is [are] known to the State of California to cause birth defects or other reproductive harm.  
For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### **US. New Jersey Worker and Community Right-to-Know Act**

##### **Chemical Identity**

2-Propanol  
Methanol  
Ethanol  
Phenol

#### **US. Massachusetts RTK - Substance List**

##### **Chemical Identity**

2-Propanol  
Methanol  
Ethanol  
Phenol

#### **US. Pennsylvania RTK - Hazardous Substances**

##### **Chemical Identity**

2-Propanol  
Methanol  
Ethanol

#### **US. Rhode Island RTK**

##### **Chemical Identity**

2-Propanol  
Methanol  
Ethanol

<b>16. Other information, including date of preparation or last revision</b>
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**Issue Date:** 03/18/2021



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**Version #:** 2.1

**Revision Information:**

**Further Information:** No data available.

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