



Safety Data Sheet

Carmine AS

Version: 6 US / EN

Revision Date: 03-12-2015

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Carmine AS
Material No: 618078

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application: For food application.

1.3 Details of the supplier of the safety data sheet

Supplier: Chr. Hansen Inc.
9015 West Maple Street
53214-4298 Milwaukee - WI
Phone: +1 414 607-5700

Headquarters: Chr. Hansen A/S
Bogø Allé 10-12
DK-2970 Horsholm
Tel. +45 45 74 74 74

1.4 Emergency telephone number

Emergency telephone: Health: 1-800-558-0802 (Monday through Friday, 7:30 AM to 5 PM CST) at other times contact Chemtrec or the local poison control center. Transportation: 1-800-424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Skin Irrit. 2; H315
Eye Irrit. 2; H319

2.2 Label elements



Signal Word
Warning

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Hazard statements

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

Precautionary statements

P305/351/338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental hazard information

None.

2.3 Other hazards

Physical and Chemical Hazards:

The hazardous properties of the product are considered to be limited.

Human health:

Irritating to eyes and skin.

Substances listed as carcinogens on NTP, OSHA or IARC are marked with a "+" or indicated as such in the table below.

Chemical Name	NTP	OSHA	IARC
ammonia	-	-	-
glycerol	-	-	-

Environment:

The product contains a substance which is very toxic to aquatic organisms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

The product contains: food ingredients.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

The following substances shall be indicated according to legislation:

Chemical Name	CAS-No	%	GHS	Notes:
ammonia	1336-21-6	1 - 5	Met. Corr. 1; H290 Skin Corr. 1B; H314 Aquatic Acute 1; H400	-
glycerol	56-81-5	20 - 30	-	WADA

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4. FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation: Move into fresh air and keep at rest. If uncomfortable: Seek hospital and take along these instructions.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring these instructions.

Ingestion: Rinse mouth thoroughly. If uncomfortable: Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed Irritating to eyes and skin.

4.3 Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

5.2 Special hazards arising from the substance or mixture During fire, health hazardous gases may be formed. The explosion limits and the flash point are stated in section 9.

5.3 Advice for firefighters Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Avoid inhalation of vapors/spray and contact with skin and eyes. Follow precautions for safe handling described in this safety data sheet.

6.2 Environmental precautions Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up Flush away small spillages with plenty of water. Large quantities: Absorb spillage with suitable absorbent material. Flush contaminated area with plenty of water.

6.4 Reference to other sections For personal protection, see section 8. For waste disposal, see section 13.

7. HANDLING AND STORAGE

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7.1 Precautions for safe handling

Safe handling advice: Avoid inhalation of vapors and contact with skin and eyes. Observe good industrial hygiene practices.

Technical measures: Keep the workplace clean.

Technical precautions: Mechanical ventilation or local exhaust ventilation is required.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container. Store at refrigerated temperature conditions. For detailed information consult the PI sheet. Protect against direct sunlight. Store in a dry place.

Technical measures for safe storage: No special precautions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits are listed below. No data - no exposure limits noted for ingredient(s).

<u>Chemical Name</u>	<u>Exposure limits (OSHA)</u>	<u>Notes</u>
ammonia	STEL: 27 MGM3 35 PPM	
glycerol	TWA: 5 MGM3 TWA: 10 MGM3	

<u>Chemical Name</u>	<u>Exposure limits (ACGIH)</u>	<u>Notes</u>
ammonia	STEL: 35 PPM TWA: 25 PPM	
glycerol	TWA: 10 MGM3	WADA

8.2 Exposure controls

Engineering measures: Provide adequate ventilation. Minimise the risk of inhalation of vapors and mist.

Respiratory equipment: In case of inadequate ventilation: Use respiratory equipment with combination filter, type A2/P2. The use of filtering respirators should be limited to max. 3 hours per day.

Hand protection: Wear protective gloves. Nitrile gloves are recommended.

Eye protection: Wear goggles/face shield.

Skin protection: Risk of splashes: Wear suitable protective clothing.

Hygiene measures: Wash hands after contact.

Environmental Exposure Controls: None.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

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Appearance:	Liquid
Color:	Red
Odor:	Ammonia
pH:	10.00 - 11.00 (direct in liquid)
Melting point:	Not relevant
Boiling point:	Not relevant
Decomposition temperature:	Not relevant
Flash point:	> 285.8 °F
Relative Density:	1.10 - 1.20
Solubility:	Water soluble

9.2 Other information

No information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

10.5 Incompatible materials

Metals.

10.6 Hazardous decomposition products

None known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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Inhalation: Irritating to respiratory system.

Ammonia: In high concentrations: Inhalation of vapor or mist may cause lung edema. After 2-24 hours, injured persons may develop serious shortness of breath and lung edema.

Skin contact: Irritating to skin.

Eye contact: Irritating.

Ingestion: May irritate and cause malaise.

Specific effects: None known, unless listed below.

Substances listed as carcinogens on NTP, OSHA or IARC are marked with a "+" or indicated as such in the table below.

Chemical Name	NTP	OSHA	IARC
ammonia	-	-	-
glycerol	-	-	-

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

The product contains a substance which is very toxic to aquatic organisms. May lead to a local change in acidity in the aquatic environment which may have adverse effects on aquatic organisms.

12.2 Persistence and degradability

The product is expected to be biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation: Is not expected to be bio-accumulable.

12.4 Mobility in soil

The product is water soluble and may spread in water systems.

12.6 Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

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14. TRANSPORT INFORMATION

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

14.1 UN number -

Air (ICAO/IATA):

14.3 Transport hazard class(es) -

14.4 Packing group -

Sea (IMDG):

14.3 Transport hazard class(es) -

14.4 Packing group -

EmS -

MFAG -

Land (DOT):

14.3 Transport hazard class(es) -

14.4 Packing group -

14.5 Environmental hazards

Marine pollutant (IMDG): -

14.6 Special precautions for user

None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

NFPA: Health: 1 Fire: 1 Reactivity: 0 Other: -

Information on TSCA, CERCLA, SARA 313 and 302, CAA:

Chemical Name	TSCA	CERCLA	SARA 313	SARA 302	CAA
ammonia	+	+	+	-	-
glycerol	+	-	-	-	-

Specific Provisions: State and local regulations may apply.

National regulation: OSHA Regulations (Standards - 29 CFR). Hazard Communication - 1910.1200.

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16. OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements : 2, 3, 16.

Wording of Hazard Statements

H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

H400 - Very toxic to aquatic life.

The information in this Safety Data Sheet has been obtained from current and reliable sources. However, the data is provided without warranty, express or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for use of this product and to assume liability for loss injury, damage, or expense resulting from improper use of this product.