B01485 B01245 B01318 B00679 B00904 B01027 B01182-1183
B01488-95 B01253-55 B00736 B01009 B01040 B01185-1187
B01515 B01297 B01323 B00900 B01018 B01062-1065 B01193
B01520-21 B01299 B01339 B00902 B01020 B01067 B01195-1196
KI03149-50 4559. B01341 B01239
KI03181-83 KI03215 B01348 B01392
KI03192 KI03215A B01350 B01461-03
KI03214 KI03214A B01363-65 B01407
B01385 B01416-18
B01421-23 B01440 B01445-51
B01429 B01458 B01478
B01472
B01474-75

Material Safety Data Sheet

1) Chemical Product and Company Identification

Product Name:	Various
Product Identification Numbers:	**SuperC-E**
Manufacturer/Supplier:	Charter Films Inc., Superior, WI 54880
Chemical Name:	Not applicable
Synonym:	Not applicable
Molecular Formula:	Not applicable
Molecular Weight:	Not applicable
Product Use:	User specified

2) Composition/Information on Ingredients

Weight %	Component
>90	Polyethylene, Polyethylene/copolymer
<10	Additives/Modifiers

3) Hazard Identification

HMIS Hazard Ratings:	Health-1, Flammability-1, Chemical Reactivity-0
NFPA Hazard Ratings:	Health-1, Flammability-1, Instability-0

Note:
HMIS and NFPA ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

4) First Aid Measures

Inhalation:	Not applicable
Eyes:	If molten material contacts the eye, immediately flush with water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Skin:	If burned by contact with molten material, cool as quickly as possible. Do not peel material from skin. Get medical attention.
Ingestion:	Material is not expected to be absorbed from the gastrointestinal tract, therefore induction of vomiting should not be necessary.

5) Fire Fighting Measures

Extinguishing Media:	Water spray, dry chemical
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus and protective clothing.
Hazardous Combustion Products:	Carbon dioxide, carbon monoxide

6) Accidental Release Measures

Place in a container for salvage or disposal. Consult an expert on disposal to ensure conformity to local disposal regulations.

7) Handling and Storage

Personal Precautionary Measures: No special precautionary measures should be needed under anticipated conditions of use.

8) Exposure Controls/Personal Protection

Exposure Limits:

ACGIH Threshold Limit Value (TLV):	Not applicable
OSHA (USA) Permissible Exposure Limit (PEL, 1989 Table Z-1-A values or section-specific standards):	Not applicable
Ventilation:	Not applicable
Respiratory Protection:	Not applicable
Eye Protection:	It is a good industrial hygiene practice to minimize eye contact.
Skin Protection:	When material is heated, wear gloves to protect against thermal burns.

9) Physical and Chemical Properties

Physical Form:	Solid
Color:	Varies with formulation
Odor:	None
Odor Threshold:	Not applicable
Specific Gravity (water=1):	0.910-0.930
Vapor Pressure:	Negligible
Vapor Density (Air=1):	Not applicable
Evaporation Rate:	Not applicable
Boiling Point:	Not available
Melting Point:	Varies with formulation, approximately 120°C (248°F)
Viscosity at Ambient Temperature:	Not applicable
Solubility in Water at Ambient Temperature:	Negligible

Material Safety Data Sheet

pH:	Not applicable
Octanol/Water Partition Coefficient:	Not applicable
Flash Point:	500°F Note: Estimated minimum
Lower Flammable Limit:	Not applicable
Upper Flammable Limit:	Not applicable
Autoignition Temperature:	650°F Note: Estimated minimum
Sensitivity to Mechanical Impact:	Not available
Sensitivity to Static Discharge:	Not available

10) Stability and Reactivity

Stability:	Stable
Incompatibility:	Material can react with strong oxidizing agents
Hazardous Polymerization:	Will not occur

11) Toxicological Information

Effects of Exposure:

Inhalation:	Low hazard for usual industrial handling or commercial handling by trained personnel.
Eyes:	Molten material will produce thermal burns.
Skin:	Molten material will produce thermal burns.
Ingestion:	Expected to be a low ingestion hazard.

12) Ecological Information

This material has not been tested for environmental effects. Polyethylene, being inert by nature, can be readily disposed without any expected environmental issues.

13) Disposal Considerations

Discharge, treatment, or disposal may be subject to national, state, or local laws.

14) Transport Information

DOT (USA) Status: Not regulated

Air- International Civil Aviation Organization (ICAO)
ICAO Status: Not regulated

Sea-International Maritime Dangerous Goods (IMDG)
IMDG Status: Not regulated

15) Regulatory Information

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Material Safety Data Sheet

OSHA Classification:	Not applicable
California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986) material(s) known to the State to cause cancer:	None known to Charter Films Inc.
California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986) material(s) known to the State to cause adverse reproductive effects:	None known to Charter Films Inc

This document has been prepared in accordance with the MSDS requirements of the WHMIS Controlled Products Regulation.

WHMIS (Canada) Status:	Non-controlled
WHMIS (Canada) Hazard Classification:	Not applicable

Carcinogenic Classification (components present at 0.1% or more):

International Agency for Research on Cancer (IARC):	Not listed
American Conference of Governmental Industrial Hygienists (ACGIH):	Not listed
National Toxicology Program (NTP):	Not listed
Occupational Safety and Health Administration (OSHA):	Not listed

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:	None
SARA (USA) Sections 311 and 312 hazard classification(s):	Not applicable

US Toxic Substances Control Act (TSCA): All components of this product are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

Canadian Environmental Protection Act (CEPA) and Domestic Substances List (DSL): All components of this product are listed on the DSL. Any impurities present in this product are exempt from listing.

16) Other Information

First Aid: If burned by contact with molten material, cool as quickly as possible. Do not peel from skin. Get medical attention. If molten material contacts the eye, immediately flush with water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Note to Physicians: Burns should be treated as thermal burns. The material will come off as healing occurs: therefore, immediate removal of material from skin is not necessary.

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider this data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information to assure proper use and disposal of these materials, safety and health of employees/customers, and protection of the environment.

438.

U 03012

Safety Data Sheet

Sodium Thiosulfate (Pentahydrate) Tablets
Effective Date: 1/31/2015

Section 1 - Chemical and Company Information

Manufacturer: Cargille TAB-PRO Corporation
4 East Frederick Place
Cedar Knolls, NJ 07927
973-267-8888 (p)
973-267-7998 (f)
www.CargilleTabPro.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300
International CHEMTREC, call: 1-703-527-3887
For non-emergency assistance, call: 1-973-267-8888

Common Name: Sodium Thiosulfate Tablet, 140 mg / 10 mg active (anhydrous basis)
CAS No.(s): see section 2 (below).

Section 2- Composition Information on Ingredients

Sodium Chloride	NaCl	CAS No. 7647-14-5
Sodium Bicarbonate	NaHCO3	CAS No. 144-55-8
Sodium Thiosulfate Pentahydrate	Na2S2O3•5H2O	CAS No. 10102-17-7
Polyethylene Glycol 8000	H(OCH2CH2)nOH	CAS No. 25322-68-3

Toxicological Data on Ingredients: Sodium chloride: ORAL (LD50): Acute: 3000 mg/kg [Rat.]. 4000 mg/kg [Mouse]. DERMAL (LD50): Acute: >10000 mg/kg [Rabbit]. DUST (LC50): Acute: >42000 mg/m 1 hours [Rat]

Section 3 - Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects: CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4 - First Aid Measures

Eyes Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5 - Fire and Explosion Data

Flammability of the Product:: Non-flammable.

Auto-Ignition Temperature: Not Applicable.
Flash Points: Not Applicable.
Flammable Limits: Not Applicable.
Products of Combustion: Not Available.
Fire Hazards in Presence of Various Substances: Not Applicable.
Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions: Not applicable.
Special Remarks on Fire Hazards: When heated to decomposition it emits toxic fumes.

Section 6 - Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system..

Section 7 - Handling and Storage

Precautions: Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Keep away from incompatibles such as oxidizing agents, acids and alkalis.
Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic.

Section 8 - Exposure Controls and Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation or other engineering controls to minimize airborne levels.
Personal Protection: Safety glasses. Lab Coat. A particulate respirator (NIOSH Type N95). Gloves.
Personal protection in Case of a Large Spill: Safety glasses. Coat. Dust respirator. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure limits: None established.

Section 9 - Physical and Chemical Properties

Physical state and appearance: Solid White Tablets.
Odor: Odorless.
Taste: Saline.
Molecular Weight: Not Available.
Color: White.
pH (1% soln/water): pH of a 5% solution: 5.0 – 8.4
Boiling Point: > 100° C (212° F)
Melting Point: 48° C (118.4° F)
Critical Temperature: Not Available.
Specific Gravity: 2 approx. (Water=1)
Vapor Pressure: Not Applicable.
Volatility: Not Available.

Odor Threshold: Not Available.
Water/Oil Dist. Coeff.: Not Available.
Ionicity (in Water): Not Available.
Dispersion Properties: See solubility in water.

Solubility:

Soluble in cold water, hot water.
Solubility of Sodium Thiosulfate pentahydrate in water: 79 g/100 ml @ 4° C (39° F)
680 g/liter @ 20° C (68° F)

Section 10 - Stability and Reactivity

Stability: The product is stable.
Hazardous Decomposition Products: Oxides of sulfur and hydrogen sulfide.
When heated to above 801C(1474F) it emits toxic fumes of chloride and sodium oxide.
Hazardous Polymerization: Will not occur.
Incompatiblities: Sodium Nitrate, halogens, lithium, bromine trifluoride, and oxidizing agents. Reacts with acids to release sulfur dioxide.
Conditions to Avoid: Incompatible materials, moisture.
Corrosivity: Not considered to be corrosive for metals and glass.
Special Remarks on Reactivity: Hygroscopic. Reacts with most nonnoble metals such as iron or steel, building materials (such as cement) keep container tightly closed. Protect from moisture.
Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.
Toxicity to Animals: Acute oral toxicity (LD50): 3360 mg/kg [Mouse].
Chronic Effects on Humans: Not available.
Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans: Sodium Bicarbonate has produced genetic effects in rats (unscheduled DNA synthesis). However, no affects have been found in humans.
Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: May cause mild skin irritation. Eyes: May cause mild eye irritation. Inhalation: May cause respiratory tract irritation. Symptoms may include coughing and sneezing. Ingestion: Symptoms of overexposure to Sodium Bicarbonate include thirst, abdominal pain, gastroenteritis, and inflammation of the digestive tract. Chronic Potential Health Effects: Skin: Repeated or prolonged skin contact may cause irritation, drying or cracking of the skin. Ingestion and Inhalation: Chronic toxicity usually occurs within 4 to 10 days following ingestion of very large amounts. Repeated or prolonged ingestion or inhalation of large amounts may cause metabolic abnormalities, and sodium retention. Metabolic abnormalities such as acidosis, hypernatremia, hypochloremia, alkalosis, hypocalcemia, or sodium retention may affect the blood, kidneys, respiration (cyanosis, apnea secondary to metabolic acidosis or pulmonary edema), and cardiovascular system (tachycardia, hypotension). Severe toxicity may also affect behavior/central nervous system/nervous system. Neurological changes may result from metabolic abnormalities. These may include fatigue, irritability, dizziness, mental confusion, paresthesia, seizures, tetany, cerebral edema
Medical Conditions Aggravated by Exposure: Persons with pre-existing skin conditions might have increased sensitivity. Predisposing conditions that contribute to a mild alkali syndrome include, renal disease, dehydration, adn electrolyte imbalance, hypertension, sarcoidosis, congestive heart failure, edema, or other sodium retaining conditions.

Section 12: Ecological Information

Ecotoxicity: Not available.
BOD5 and COD: Not available.
Products of Biodegradation:Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation:
The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation: Not available.

Section 13 - Disposal Considerations

Dispose of in accordance with all federal, state and local environmental control regulations

Section 14 - Transportation Information

DOT Classification: Not a DOT controlled material (United States)
Identification: Not Applicable.
Special Provisions for Transport: Not Applicable.

Section 15 - Regulatory Information

Federal and State Regulations: No products were found.
Other Regulations: Not Available.
Other Classifications:
WHMIS: (Canada) Not controlled under WHMIS (Canada)
DSCL (EEC):
This product is not classified according to the EU regulations.
S24/25-Avoid contact with skin and eyes.
S28-After contact with skin, wash immediately with plenty of water.
S37-Wear suitable gloves.
S45-In case of accident of if you feel unwell, seek medical advice immediately (show label where possible)
HMIS (United States):
Health Hazard: 1
Fire Hazard 0
Reactivity: 0
Personal Protection: E
National Fire Protection Association (United States):
Health: 1
Flammability: 0
Reactivity: 0
Specific Hazard:
Protective Equipment:Gloves. Lab Coat. Dust Respirator. Be sure to use an approved/ certified respirator or equivalent. Safety glasses.

Section 16 - Other Information

References: Not Available:
Other Special Considerations: Not Available
Created: 2/3/2010
Last Updated: 1/31/2015

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express

or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Cargille Tab-Pro Corporation be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Cargille Tab-Pro Corporation has been advised of the possibility of such damages.