


SAFETY DATA SHEET		 CHEM INTERNATIONAL
Hydrogenated Tallow Amine		
Revision: 1.00	Issuing date: 05/15/2015	

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Hydrogenated Tallow Amine

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

Uses of the Substance / Mixture : Specific use(s): Use as an intermediate, Surfactants for various applications

1.3 Details of the supplier of the safety data sheet

Company : Chem International, Inc.
6099 Ponders Court
Greenville, SC 29615
Telephone number: 864-458-7868

1.4 Emergency telephone

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls.

SECTION 2: Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

2.1 Classification of the substance or mixture

HCS 2012 (29 CFR 1910.1200)

Skin irritation, Category 2
Serious eye damage, Category 1
Specific target organ systemic toxicity -
repeated exposure, Category 2,
Gastrointestinal tract
, Liver
, Respiratory Tract

H315: Causes skin irritation.
H318: Causes serious eye damage.
H373: May cause damage to organs through prolonged or repeated exposure if swallowed.

2.2 Label elements

HCS 2012 (29 CFR 1910.1200)

Pictogram :



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Signal Word : Danger

Hazard Statements:

H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H373 May cause damage to organs (Gastrointestinal tract, Liver, Respiratory Tract) through prolonged or repeated exposure if swallowed.

Precautionary Statements:

Prevention

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
 P264 Wash skin thoroughly after handling.
 P280 Wear eye protection/ face protection.
 P280 Wear protective gloves.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor/ physician.
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P362 Take off contaminated clothing and wash before reuse.

2.3 Other hazards which do not result in classification

H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.

Aspiration of the swallowed or vomited product can cause severe pulmonary complications.

SECTION 3: Composition/information on ingredients**3.1 Substance**

Chemical nature : Amines

Hazardous Ingredients and Impurities

Chemical Name	Identification number CAS-No.	Concentration [%]
Amines, hydrogenated tallow alkyl	61788-45-2	95 - 99

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

3.2 Mixture

Not applicable, this product is a substance.

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SECTION 4: First aid measures**4.1 Description of first-aid measures**

- General advice : Show this material safety data sheet to the doctor in attendance.
First responder needs to protect himself.
Place affected apparel in a sealed bag for subsequent decontamination.
Plan first aid action before beginning work with this product.
- If inhaled : Remove to fresh air.
If breathing is difficult, give oxygen.
If breathing has stopped, apply artificial respiration.
Consult a physician.
- Skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Wash immediately and thoroughly for a prolonged period (at least 15 minutes).
Get immediate medical advice/ attention.
- Eye contact : Rinse with running water while keeping the eyes wide open (at least 15 minutes).
Get immediate medical advice/ attention.
- Ingestion : Do not induce vomiting without medical advice.
If victim is conscious:
Rinse mouth with water.
Keep at rest.
Never give anything by mouth to an unconscious person.
Do not leave the victim unattended.
Vomiting may occur spontaneously
Risk of product entering the lungs on vomiting after ingestion.
Lay victim on side.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Skin contact may aggravate existing skin disease
Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician : All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
- Treat symptomatically.
There is no specific antidote available.

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SECTION 5: Firefighting measures

Flash point : ca.302 °F (150 °C)
closed cup

Flammability class: Will burn

Autoignition temperature : no data available

Flammability / Explosive limit : no data available

5.1 Extinguishing media

Suitable extinguishing media : Water mist
Carbon dioxide (CO₂)
Foam
Dry powder

Unsuitable extinguishing media : Water spray jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Under fire conditions:
Will burn
Corrosive or suffocating vapors are released.
Container may rupture on heating.
Avoid generating dust; fine dust dispersed in air in sufficient concentrations,
and in the presence of an ignition source is a potential dust explosion hazard.
Hazardous combustion products
Nitrogen oxides (NO_x)
Carbon oxides

5.3 Advice for firefighters

Special protective equipment for fire-fighters : Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Specific firefighting methods : Contain the extinguishing fluids by diking (the product is hazardous for the environment).
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Further information : In the event of fire and/or explosion do not breathe fumes.
Standard procedure for chemical fires.
Use a water spray to cool fully closed containers.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions, protective equipment and emergency procedures : Avoid contact with the skin and the eyes.
Use personal protective equipment.
Ensure adequate ventilation.
For further information refer to section 8 "Exposure controls / personal protection."
If spillage occurs on the public highway, indicate the danger and notify the authorities (police, fire service).

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Do not allow uncontrolled discharge of product into the environment.
Contain the spilled material by diking.
Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies

6.3 Methods and materials for containment and cleaning up

Recovery : Shovel or sweep up.
Pick up and transfer to properly labeled containers.
Keep in suitable, closed containers for disposal.
Never return spills in original containers for re-use.

Decontamination / cleaning : Wash off with plenty of water.
Clean contaminated surface thoroughly.
Recover the cleaning water for subsequent disposal.
Decontaminate tools, equipment and personal protective equipment in a segregated area.

Disposal : In accordance with local and national regulations.
Dispose of contents/ container to an approved waste disposal plant.

Additional advice : The product should not be allowed to enter drains, water courses or the soil.

6.4 Reference to other sections

No data available

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SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Technical measures : Potential dust explosion hazard.
Non-sparking tools should be used.
Ensure all equipment is electrically grounded before beginning transfer operations.
- Advice on safe handling and usage : The product must only be handled by specifically trained employees.
Avoid inhalation, ingestion and contact with skin and eyes.
If it is handled as a liquid, there is significant hazard of 1st, 2nd and 3rd degree burns
- Hygiene measures : Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
3) Wash exposed skin promptly to remove accidental splashes or contact with material.

7.2 Conditions for safe storage, including any incompatibilities

- Technical Measures for storage : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

Storage conditions

- Recommended : Keep in a dry, cool and well-ventilated place.
Store in original container.
Keep tightly closed.
- To be avoided : Keep away from open flames, hot surfaces and sources of ignition.
Keep away from incompatible materials to be indicated by the manufacturer
- Incompatible products : Do not mix with incompatible materials (See list, section 10).

Packaging Measures


- Packaging materials—Recommended : Steel drum, Coated steels.

Storage stability

- Storage temperature : 39 - 120 °F (4 - 49 °C)

7.3 Specific end use(s)

No data available

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SECTION 8: Exposure controls/personal protection

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters

Ingredients with workplace control parameters

Ingredients	Value type	Value	Basis
Particulates not otherwise regulated	PEL	15 mg/m3	OSHA Z-1
	Form of exposure : Total dust		
Particulates not otherwise regulated	TWA	15 mg/m3	OSHA Z-1-A
	Form of exposure : Total dust		
Particulates not otherwise regulated	PEL	5 mg/m3	OSHA Z-1
	Form of exposure : Respirable fraction		
Particulates not otherwise regulated	TWA	5 mg/m3	OSHA Z-1-A
	Form of exposure : Respirable fraction		
Particles (insoluble or poorly soluble) not otherwise specified	TWA	10 mg/m3	ACGIH
	Form of exposure : Inhalable fraction		
Particles (insoluble or poorly soluble) not otherwise specified	TWA	3 mg/m3	ACGIH
	Form of exposure : Respirable fraction		



8.2 Exposure controls

Control measures

Engineering measures : Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures :

Effective exhaust ventilation system
 Handling molten product:
 Avoid splashes.

Personal protective equipment

Respiratory protection : Use a respirator with an approved filter if a risk assessment indicates this is necessary.

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Hand protection : Glove material: Neoprene
 Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
 Gloves must be inspected prior to use.
 Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Tightly fitting safety goggles
 Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Eye contact should be prevented through the use of:

Face-shield

Skin and body protection : impervious clothing
 Safety shoes
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.
 Remove and wash contaminated clothing before re-use.

Hygiene measures : Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
 2) Wash hands and face carefully before eating, drinking, using tobacco,



applying cosmetics, or using the toilet.

3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
The protective equipment must be selected in accordance with current local standards and in cooperation with the supplier of the protective equipment. Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

SECTION 9: Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

9.1 Information on basic physical and chemical properties

Appearance : Form : solid
Physical state: solid (77 °F (25 °C))
Color: white

Odor : no data available

Odor Threshold : no data available

pH : no data available 11.5 (5 % (m / m)) Aqueous alcohol solution

Melting point/freezing point : 100 - 131 °F (38 - 55 °C)

Boiling point/boiling range : 482 - 662 °F (250 - 350 °C) (0.76 mmHg (1.013 hPa))

Flash point : ca. 302 °F (150 °C) closed cup
Flammability class: Will burn

Evaporation rate (Butylacetate = 1) : no data available

Flammability (solid, gas) : no data available

Flammability (liquids) : no data available

Flammability / Explosive limit : no data available

Autoignition temperature : no data available

Vapor pressure : no data available

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Vapor density	:	no data available
Density	:	Relative density : ca. 0.8 (68 °F (20 °C))
Solubility	:	<u>Water solubility</u> : (77 °F (25 °C)) insoluble
Partition coefficient: n-octanol/water	:	log Pow: ca. 7.3
Thermal decomposition	:	no data available
Viscosity	:	Viscosity, dynamic : 5 - 20 mPa.s (122 °F (50 °C)) Viscosity, kinematic : 6.3 mm ² /s (140 °F (60 °C))
Explosive properties	:	no data available
Oxidizing properties	:	Not considered as oxidizing. Structure-activity relationship (SAR)

9.2 Other information

Molecular weight : ca. 263 g/mol

SECTION 10: Stability and reactivity**10.1 Reactivity**

Reactivity : Stable at normal ambient temperature and pressure.

10.2 Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Polymerization : Hazardous polymerization does not occur.

10.4 Conditions to avoidConditions to avoid : Extremes of temperature and direct sunlight.
Keep away from heat and sources of ignition.

Avoid dust formation.

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10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents
Strong acids

10.6 Hazardous decomposition products

Decomposition products : On combustion or on thermal decomposition (pyrolysis), releases:
(Carbon oxides (CO + CO₂)).
Nitrogen oxides (NO_x)

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity

Amines, hydrogenated tallow alkyl : LD50 : 4,800 mg/kg - Rat
Method: OECD Test Guideline 401
May be harmful if swallowed.
Unpublished reports

Acute inhalation toxicity : no data available

Acute dermal toxicity

Amines, hydrogenated tallow alkyl : Method: OECD Test Guideline 402
By analogy
Not classified as harmful by contact with skin
Unpublished reports

Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritation

Skin irritation

Amines, hydrogenated tallow alkyl : Rabbit
Irritating to skin.
Method: OECD Test Guideline 404
Unpublished reports

Serious eye damage/eye irritation

Eye irritation

Amines, hydrogenated tallow alkyl : Rabbit
Risk of serious damage to eyes.
Method: OECD Test Guideline 405
Unpublished reports



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Respiratory or skin sensitization

Sensitization : no data available

Mutagenicity

Genotoxicity in vitro

Amines, hydrogenated tallow alkyl : Ames test
with and without metabolic activation
negative
Information given is based on data obtained from similar substances.
Unpublished reports

Genotoxicity in vivo

Amines, hydrogenated tallow alkyl : In vivo micronucleus test - Rat
negative
Information given is based on data obtained from similar substances.
Unpublished reports

Carcinogenicity

Carcinogenicity : no data available

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP
IARC
OSHA
ACGIH

Toxicity for reproduction and development

Toxicity to reproduction / fertility

Amines, hydrogenated tallow alkyl : Rat
Oral
Method: OECD Test Guideline 421
no impairment of fertility has been observed
Information given is based on data obtained from similar substances.
Unpublished reports

Developmental Toxicity/Teratogenicity

Amines, hydrogenated tallow alkyl : Rat
Application Route: Oral
Method: OECD Test Guideline 414
no teratogenic effects have been observed
Information given is based on data obtained from similar substances.
Unpublished reports

Rabbit
Application Route: Oral
Method: OECD Test Guideline 414
no teratogenic effects have been observed
Information given is based on data obtained from similar substances.
Unpublished reports

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STOT

STOT-single exposure

Amines, hydrogenated tallow alkyl

Target Organs: Respiratory organs

Toxicology Assessment:

May cause respiratory irritation.

By analogy

STOT-repeated exposure

Amines, hydrogenated tallow alkyl

: Target Organs: Gastrointestinal tract, Liver, Respiratory Tract

Toxicology Assessment:

May cause damage to organs through prolonged or repeated exposure.

Unpublished reports, Published data

Amines, hydrogenated tallow alkyl

: May cause damage to organs through prolonged or repeated exposure if swallowed. By analogy

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Unpublished reports

Published data

Aspiration toxicity

Aspiration toxicity

: molten

May be harmful if swallowed and enters airways.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic Compartment**

Acute toxicity to fish

Amines, hydrogenated tallow alkyl

: LC50 - 96 h : 0.88 mg/l - Danio rerio (zebra fish)

Method: OECD Test Guideline 203

Very toxic to fish.

Unpublished reports

Acute toxicity to daphnia and other aquatic invertebrates.

Amines, hydrogenated tallow alkyl

: EC50 - 48 h : 0.16 mg/l - Daphnia magna (Water flea)

Method: OECD Test Guideline 202

Very toxic to aquatic organisms.

Unpublished reports

Toxicity to aquatic plants

Amines, hydrogenated tallow alkyl

: EC50 - 96 h : 0.12 mg/l - Scenedesmus subspicatus

Method: OECD Test Guideline 201

By analogy

Very toxic to algae.

Growth rate

Unpublished reports

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Toxicity to microorganisms

Amines, hydrogenated tallow alkyl : EC50 : 490 mg/l
Method: OECD Test Guideline 209

Ecotoxicity assessment**Acute aquatic toxicity**

Amines, hydrogenated tallow alkyl : Very toxic to aquatic life.

Chronic aquatic toxicity

Amines, hydrogenated tallow alkyl : Very toxic to aquatic life with long lasting effects.

M-Factor

Amines, hydrogenated tallow alkyl : Acute aquatic toxicity = 10
Chronic aquatic toxicity = 10
(according to the Globally Harmonized System (GHS))

12.2 Persistence and degradability**Biodegradability****Biodegradability**

Amines, hydrogenated tallow alkyl : Method: OECD Test Guideline 301 D
75 % - 28 d
Readily biodegradable.
Theoretical oxygen demand
Unpublished reports

12.3 Bioaccumulative potential**Bioconcentration factor (BCF)**

Amines, hydrogenated tallow alkyl : By analogy
Bioaccumulative
internal evaluation

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

Amines, hydrogenated tallow alkyl : This substance is not considered to be persistent, bioaccumulating, and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects**Environment assessment**

Amines, hydrogenated tallow alkyl : Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

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SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product Disposal**

Advice on Disposal : Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Waste Code : EPA:
Hazardous Waste – NO

Advice on cleaning and disposal of packaging

Advice : Completely empty the packaging prior to decontamination.

Other data : Dispose of in accordance with local regulations.

SECTION 14: Transport information

Transportation status: IMPORTANT! Statements below provide additional data on listed transport classification. The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

DOT

14.1 UN number UN 3077

14.2 Dangerous Good Description UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (hydrogenated tallowamine), 9, III

14.3 Transport hazard class 9

14.4 Packing group

Packing group III
Label(s) 9
ERG No 171

14.5 Environmental hazards YES

Marine pollutant

TDG

14.1 UN number UN 3077

14.2 Dangerous Good Description UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (hydrogenated tallowamine), 9, III

14.3 Transport hazard class 9

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14.4 Packing group

Packing group III
 Label(s) 9
 ERG No 171

14.5 Environmental hazards

Marine pollutant YES

IMDG**14.1 UN number**

UN 3077

14.2 Dangerous Good Description

UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (hydrogenated tallowamine), 9, III

14.3 Transport hazard class

9

14.4 Packing group

Packing group III
 Label(s) 9
 EmS F-A , S-F

14.5 Environmental hazards

Marine pollutant YES

14.6 Special precautions for user

For personal protection see section 8.

IATA**14.1 UN number**

UN 3077

14.2 Dangerous Good Description

UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (hydrogenated tallowamine), 9, III

14.3 Transport hazard class

9

14.4 Packing group

Packing group III
 Label(s): 9
 Packing instruction (cargo aircraft) 956
 Max net qty / pkg 400.00 kg
 Packing instruction (passenger aircraft) 956
 Max net qty / pkg 400.00 kg


14.5 Environmental hazards

Marine pollutant YES

14.6 Special precautions for user

For personal protection see section 8.

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

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SECTION 15: Regulatory information

15.1 Notification status

United States TSCA Inventory	: YES (positive listing) On TSCA Inventory
Canadian Domestic Substances List (DSL)	: YES (positive listing) All components of this product are on the Canadian DSL.
Australia Inventory of Chemical Substances (AICS)	: YES (positive listing) On the inventory, or in compliance with the inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	: n (Negative listing) Not in compliance with the inventory
Korea. Korean Existing Chemicals Inventory (KECI)	: YES (positive listing) On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	: YES (positive listing) On the inventory, or in compliance with the inventory

15.2 Federal Regulations

SARA 311/312 Hazards

Fire Hazard	no
Reactivity Hazard	no
Sudden Release of Pressure Hazard	no
Acute Health Hazard	yes
Chronic Health Hazard	yes

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity


This material does not contain any components with a CERCLA RQ.

SARA 304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Reportable Quantity

This material does not contain any components with a SARA 302 RQ.

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15.3 State Regulations

California Prop 65 : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16: Other information

NFPA-Classification

Health : 3 serious
 Flammability : 1 slight
 Instability or Reactivity : 0
 minimal

HMIS-Classification

Health : 3 serious
 Flammability : 1 slight
 Reactivity : 0
 minimal

Further information

Date Prepared : 05/15/2015
 Further information : Product classified under the US GHS format.

Key or legend to abbreviations and acronyms used in the safety data sheet

PEL : Permissible exposure limit (PEL)
 TWA : time weighted average
 ACGIH : American Conference of Governmental Industrial Hygienists
 OSHA : Occupational Safety and Health Administration
 WHMIS : Workplace Hazardous Materials Information System
 NTP : National Toxicology Program
 IARC : International Agency for Research on Cancer
 NIOSH : National Institute for Occupational Safety and Health
 NFPA : National Fire Protection Association
 HMIS : Hazardous Materials Identification System (Paint & Coating)

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in another manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.