

SAFETY DATA SHEET



CHEM INTERNATIONAL

Oleyl Amine, distilled

Revision: 1.00

Issuing date: 09/28/2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : Oleyl Amine, distilled

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

Uses of the Substance / Mixture : Specific use(s): Intermediate

1.3 Details of the supplier of the safety data sheet

Company : Chem International
 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

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)**

Acute toxicity, Category 4
 Skin corrosion, Category 1B
 Serious eye damage, Category 1
 Specific target organ systemic toxicity - single exposure, Category 3, Respiratory system
 Specific target organ systemic toxicity - repeated exposure, Category 2, Gastrointestinal tract
 , Liver
 , Respiratory Tract
 Aspiration hazard, Category 1

H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H318: Causes serious eye damage.
 H335: May cause respiratory irritation.

 H373: May cause damage to organs through prolonged or repeated exposure.

 H304: May be fatal if swallowed and enters airways.

2.2 Label elements**HCS 2012 (29 CFR 1910.1200)**

Pictogram



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Signal Word : Danger

Hazard Statements:

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H373 May cause damage to organs (Gastrointestinal tract, Liver, Respiratory Tract) through prolonged or repeated exposure.

Precautionary Statements:

Prevention

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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. Immediately call a POISON CENTER or doctor/ physician.
P310 Immediately call a POISON CENTER or doctor/ physician.
P363 Wash contaminated clothing before reuse.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

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.

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

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Hazardous Ingredients and Impurities

Chemical Name	Identification number CAS-No.	Concentration [%]
9-Octadecen-1-amine, (9Z)-	112-90-3	95 - 99
9-Octadecenitrile, (9Z)-	112-91-4	0.5 - 1

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.

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.
- If inhaled : Remove victim from exposure and then have him lie down in the recovery position.
If breathing is difficult, give oxygen.
If victim has stopped breathing:
Administer CPR (cardio-pulmonary resuscitation)
Get immediate medical advice/ attention.
- Skin contact : In case of contact, immediately flush skin with plenty of water for at least 30 minutes.
Remove contaminated clothing and shoes.
Wash contaminated clothing before re-use.
Discard contaminated shoes and clothing.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical advice.
- Ingestion : Do not induce vomiting without medical advice.
If victim is conscious:
Rinse mouth with water.
Keep at rest.
Do not give anything to drink.
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.

SECTION 5: Firefighting measures

- Flash point : 302 °F (150 °C)
closed cup
- Flammability class: Will burn
- Autoignition temperature : 509 °F (265 °C)
- Flammability / Explosive limit : no data available

5.1 Extinguishing media

- Suitable extinguishing media : Extinguishing media - small fires
Dry chemical
Carbon dioxide (CO₂)
- Extinguishing media - large fires
Foam
Water spray
- Unsuitable extinguishing media : High volume water jet
(frothing possible)

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Under fire conditions:
Will burn
Container may rupture on heating.
Harmful or toxic vapors are released.
On combustion or on thermal decomposition (pyrolysis), releases:
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 : Cool closed containers exposed to fire with water spray.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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

Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.
For further information refer to section 8 "Exposure controls / personal protection."
Avoid contact with the skin and the eyes.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
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

Methods for containment : Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.
Dam up with sand or inert earth (do not use combustible materials).

Recovery : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Shovel or sweep up.
Keep in suitable, closed containers for disposal.
Never return spills in original containers for re-use.

Decontamination / cleaning : Wash nonrecoverable remainder with large amounts of water.
Recover the cleaning water for subsequent disposal.

: Clean contaminated surface thoroughly.
Flush with plenty of water.
Decontaminate tools, equipment and personal protective equipment in a segregated area.

Disposal : Dispose of in accordance with local regulations.

Additional advice : The product should not be allowed to enter drains, water courses or the soil.
: Material can create slippery conditions.

6.4 Reference to other sections

Reference to other sections : 7. HANDLING AND STORAGE
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
13. DISPOSAL CONSIDERATIONS

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

- Advice on safe handling and usage : Handle in accordance with good industrial hygiene and safety practice.
Avoid inhalation of vapor or mist.
Avoid contact with skin and eyes.
- Do not ingest.
- 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 container tightly closed in a dry and well-ventilated place.
- 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 : Strong acids
Strong oxidizing agents
Strong reducing agents.

Packaging Measures

- Packaging materials—Recommended : Polyethylene or polypropylene drums, high density

Storage stability

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

7.3 Specific end use(s)

No data available

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

Contains no substances with occupational exposure limit values.

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
Avoid splashes.

Personal protective equipment

Respiratory protection : 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 : Where there is a risk of contact with hands, use appropriate gloves
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 : 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:

Safety glasses with side-shields
Face-shield

Skin and body protection : Recommended preventive skin protection
Footwear protecting against chemicals
impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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.
Emergency equipment immediately accessible, with instructions for use.

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: liquid
Physical state: liquid (77 °F (25 °C))
Color: colorless to pale yellow.

Particle size : Not applicable, liquid

Odor : Ammoniacal

Odor Threshold : No data available

pH : Not applicable, insoluble product

Melting point/freezing point : 50 - 68 °F (10 - 20 °C)

Boiling point/boiling range : 482 - 662 °F (250 - 350 °C) (760 mmHg (1,013.25 hPa))

Flash point : 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 : 509 °F (265 °C)



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Vapor pressure	:	< 0.75 mmHg (< 1 hPa) (68 °F (20 °C)) estimated
Vapor density	:	no data available
Density	:	0.8 g/cm ³ (77 °F (25 °C)) Method: DIN 51757 Relative density : 0.8 (77 °F (25 °C))
Solubility	:	<u>Water solubility :</u> (77 °F (25 °C)) insoluble <u>Solubility in other solvents:</u> Ethanol : soluble Isopropanol : soluble
Partition coefficient: n-octanol/water	:	log Pow: 7.5 (68 °F (20 °C)) estimated
Thermal decomposition	:	no data available
Viscosity	:	Viscosity, dynamic : 5,000 - 20,000 mPa.s (86 °F (30 °C)) estimated Viscosity, kinematic : 6.2 - 25.3 mm ² /s
Explosive properties	:	Not explosive
Oxidizing properties	:	Not considered as oxidizing., Structure-activity relationship (SAR)

9.2 Other information

Surface tension	:	Not applicable, insoluble product
Molecular weight	:	265 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Polymerization : Hazardous polymerization does not occur.

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10.4 Conditions to avoid

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

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents
Strong reducing 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 : LD50 : 1,689 mg/kg - Rat
Method: OECD Test Guideline 401
Harmful if swallowed.
Unpublished reports
Information refers to the main constituent

Acute inhalation toxicity : no data available

Acute dermal toxicity : Method: OECD Test Guideline 402
By analogy
Not classified as harmful by contact with skin
Unpublished reports
Information refers to the main constituent

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

Skin corrosion/irritation

Skin irritation : Rabbit
Causes burns.
Method: OECD Test Guideline 404
Unpublished reports
Information refers to the main constituent

Serious eye damage/eye irritation

Eye irritation : Risk of serious damage to eyes.
Internal evaluation
Information refers to the main constituent

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Respiratory or skin sensitization

Sensitization

9-Octadecenenitrile, (9Z)- : Guinea pig
 Not classified as sensitizing by skin contact
 Method: OECD Test Guideline 406
 By analogy
 Unpublished reports

Mutagenicity

Genotoxicity in vitro

: Ames test
 with and without metabolic activation
 negative
 Information refers to the main constituent
 In vitro tests did not show mutagenic effects
 Unpublished reports

Chromosome aberration test in vitro
 with and without metabolic activation
 negative
 Unpublished reports

Mutagenicity (in vitro mammalian cytogenetic test)
 with and without metabolic activation
 negative
 Unpublished reports

Genotoxicity in vivo

: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) - Mouse
 Oral
 negative
 Unpublished reports
 Information refers to the main constituent

Carcinogenicity

Carcinogenicity

: The product itself has not been tested.
 According to the data on the constituents
 Not classifiable as a human carcinogen.
 According to the classification criteria for mixtures.

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

: Rat
 Oral
 No effect observed in male or female reproductive system in repeated dose tox studies.
 Unpublished reports
 Information refers to the main constituent

Developmental Toxicity/Teratogenicity

: Rat
 Oral



NOAEL teratogenicity: > 30 mg/kg
NOAEL maternal: 3 mg/kg

Method: OECD Test Guideline 414
No teratogenic effects have been observed
Unpublished reports
Information refers to the main constituent

Rabbit
Oral
NOAEL teratogenicity: >= 80 mg/kg
NOAEL maternal: 10 mg/kg

Method: OECD Test Guideline 414
No teratogenic effects have been observed
Unpublished reports

STOT

STOT-single exposure : Target Organs: Respiratory organs
Toxicology Assessment:
May cause respiratory irritation.
By analogy, Information refers to the main constituent

STOT-repeated exposure : Target Organs: Gastrointestinal tract, Liver, Respiratory Tract
Toxicology Assessment:
May cause damage to organs through prolonged or repeated exposure.
Information refers to the main constituent

May cause damage to organs through prolonged or repeated exposure if
swallowed. Oral 28 d - Rat
NOAEL: 3.25 mg/kg bw/day
Method: OECD Test Guideline 407
Repeated dose (28 days) toxicity (oral)
Unpublished reports
Information refers to the main constituent

Aspiration toxicity

Aspiration toxicity : May be fatal if swallowed and enters airways. The product itself has not been
tested. Information refers to the main constituent

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

Acute toxicity to fish : LC50 - 96 h : 0.11 mg/l - Pimephales promelas (fathead minnow)
Method: OECD Test Guideline 203
Very toxic to fish.
Unpublished reports
Information refers to the main constituent

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- Acute toxicity to daphnia and other aquatic invertebrates. : EC50 - 48 h : 0.011 mg/l - Daphnia magna (Water flea)
Method: OECD Test Guideline 202
Very toxic to aquatic organisms.
Unpublished reports
Information refers to the main constituent
- Toxicity to aquatic plants : EC50 - 96 h : 0.04 mg/l - Selenastrum capricornutum (green algae)
Method: OECD Test Guideline 201
Growth rate
Very toxic to algae.
Unpublished reports
Information refers to the main constituent
- Toxicity to microorganisms : EC50 : 222.5 mg/l
Method: OECD Test Guideline 209
Information refers to the main constituent
- Chronic toxicity to daphnia and other aquatic invertebrates. : NOEC: 0.013 mg/l - 21 d - Daphnia magna (Water flea)
Reproduction Test Method: OECD Test Guideline 211
Very toxic to aquatic life with long lasting effects.
Unpublished reports
Information refers to the main constituent
- Chronic Toxicity to aquatic plants : NOEC: 0.01 mg/l - 96 h - Pseudokirchneriella subcapitata
Method: OECD Test Guideline 201
Very toxic to algae.
Unpublished reports
Information refers to the main constituent

Ecotoxicity assessment

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

M-Factor

- 9-Octadecen-1-amine, (9Z)- : Acute aquatic toxicity = 10
(according to the Globally Harmonized System (GHS))
- 9-Octadecenenitrile, (9Z)- : Acute aquatic toxicity = 10
Chronic aquatic toxicity = 10
(according to the Globally Harmonized System (GHS))

12.2 Persistence and degradability**Biodegradability**

- Biodegradability : Method: OECD Test Guideline 301 B
66 % - 28 d
Readily biodegradable.
The 10 day time window criterion is not fulfilled.
Unpublished reports
Information refers to the main constituent

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Stability

Stability in water

9-Octadecenenitrile, (9Z)- : Stable
Unpublished reports

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)

: By analogy
Bioaccumulative
internal evaluation
Information refers to the main constituent

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

: 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

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

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 – YES

RCRA:
D002 - Corrosive waste – (C)

Advice on cleaning and disposal of packaging

Advice on Disposal

: Rinse with an appropriate solvent.
Dispose of contents/container in accordance with local regulation.

SECTION 14: Transport information

Transportation status: IMPORTANT! Statements below provide additional data on listed transport classification.

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The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

DOT

<u>14.1 UN number</u>	UN 2735
<u>14.2 Dangerous Good Description</u>	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., (Oleylamine), 8, II
<u>14.3 Transport hazard class</u>	8
<u>14.4 Packing group</u>	II
Packing group	II
Label(s)	8
ERG No	153
<u>14.5 Environmental hazards</u>	YES
Marine pollutant	

TDG

<u>14.1 UN number</u>	UN 2735
<u>14.2 Dangerous Good Description</u>	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., (Oleylamine), 8, II
<u>14.3 Transport hazard class</u>	8
<u>14.4 Packing group</u>	II
Packing group	II
Label(s)	8
ERG No	153
<u>14.5 Environmental hazards</u>	YES
Marine pollutant	

IMDG

<u>14.1 UN number</u>	UN 2735
<u>14.2 Dangerous Good Description</u>	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., (Oleylamine), 8, II, IMDG Code Segregation Group 18 - Alkalis
IMDG Code segregation group	Alkalis
<u>14.3 Transport hazard class</u>	8
<u>14.4 Packing group</u>	II
Packing group	II
Label(s)	8
EmS	F-A , S-B
<u>14.5 Environmental hazards</u>	YES
Marine pollutant	

14.6 Special precautions for user
For personal protection see section 8.

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IATA

<u>14.1 UN number</u>	UN 2735
<u>14.2 Dangerous Good Description</u>	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., (Oleylamine), 8, II
<u>14.3 Transport hazard class</u>	8
<u>14.4 Packing group</u>	II
Packing group	8
Label(s):	855
Packing instruction (cargo aircraft)	30.00 L
Max net qty / pkg	851
Packing instruction (passenger aircraft)	1.00 L
Max net qty / pkg	
<u>14.5 Environmental hazards</u>	YES
Marine pollutant	

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	: YES (positive listing) On the inventory, or 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**

Ingredients	CAS-No.	Reportable quantity
Unlisted hazardous wastes - Characteristic of Corrosivity		100 lb

SARA 304 Reportable Quantity

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

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SARA 302 Reportable Quantity

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

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
 Date Revised : 09/28/2018 (date only)
 Further information : Product classified under the US GHS format.

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

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.