


SAFETY DATA SHEET		 CHEM INTERNATIONAL
LAURYL AMINE, DISTILLED		
		Issuing date: 09/28/2018

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

1.1 Product identifier

Trade name : LAURYL 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
Fax number: 864-458-7783

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)

Skin corrosion, Category 1A	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ systemic toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ systemic toxicity - repeated exposure, Category 2, Gastrointestinal tract	H373: May cause damage to organs through prolonged or repeated exposure.
, Liver	
, Respiratory Tract	

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

Pictogram

:



Signal Word

:

Danger

Hazard Statements:

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.

P271

Use only outdoors or in a well-ventilated area.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

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

Wash contaminated clothing before reuse.

P363

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.

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

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

Synonyms : Dodecylamine

Hazardous Ingredients and Impurities

Chemical Name	Identification number CAS-No.	Concentration [%]
1-Dodecanamine	124-22-1	95 - 99
1-Decanamine	2016-57-1	1 - 5
1-Tetradecanamine	2016-42-4	1 - 5
1-Dodecanamine, N-dodecyl-	3007-31-6	1 - 5
Dodecanenitrile	2437-25-4	0.1 - 0.3

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.
Plan first aid action before beginning work with this product.
- 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)
Consult a physician.
- Skin contact : In case of contact, immediately flush skin with plenty of water for at least 30 minutes.
Remove contaminated clothing and shoes.
Get immediate medical advice/ attention.
Discard contaminated shoes and clothing.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get immediate medical advice/ attention.
- Ingestion : Do not induce vomiting without medical advice.
If victim is conscious:

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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 : 230 °F (110 °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 : 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
Harmful or toxic 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.
On combustion or on thermal decomposition (pyrolysis), releases:
Nitrogen oxides (NOx)
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.

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**


- 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 : 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 : Dispose of in accordance with local regulations.
- Additional advice : The product should not be allowed to enter drains, water courses or the soil.

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**

- Technical measures : Potential dust explosion hazard.
Avoid dust formation.
During processing, dust may form explosive mixture in air.
Do not use sparking tools.
Ensure all equipment is electrically grounded before beginning transfer operations.
- Advice on safe handling and usage : Provide adequate ventilation.
Do not breathe vapors/dust.
Avoid inhalation, ingestion and contact with skin and eyes.
Do NOT handle without gloves.
Do not mix with incompatible materials (See list, section 10).
Handle in accordance with good industrial hygiene and safety practice.
- The product must only be handled by specifically trained employees.
- 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:

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- 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

Packaging Measures

Packaging materials—Recommended : Steel drum, Coated steels.

Storage stability

Storage temperature : 39 - 104 °F (4 - 40 °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

Ingredients with workplace control parameters

Ingredients	Value type	Value	Basis
Particulates not otherwise regulated	PEL	15 mg/m3	OSHA Z-1

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		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 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

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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

- : 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.
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 : solid Physical state: solid (77 °F (25 °C)) Color: white
Odor	:	slight ammoniacal
Odor Threshold	:	no data available
pH	:	no data available
Melting point/freezing point	:	68 - 86 °F (20 - 30 °C)
Boiling point/boiling range	:	473 - 482 °F (245 - 250 °C) (760 mmHg (1,013.25 hPa))
Flash point	:	230 °F (110 °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	:	64 mmHg (85.33 hPa) (338 °F (170 °C))
Vapor density	:	no data available
Density	:	0.8 g/cm ³ (77 °F (25 °C)) Relative density : ca. 0.8 (77 °F (25 °C))
Solubility	:	<u>Water solubility :</u> insoluble <u>Solubility in other solvents:</u> Ethanol : soluble Isopropanol : soluble
Partition coefficient: n-octanol/water	:	no data available
Thermal decomposition	:	no data available

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Viscosity : Viscosity, dynamic : 4 mPa.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 : 185 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 avoid

Conditions to avoid : Keep away from heat and sources of ignition.

Static electricity
Dust

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 : LD50 : > 2,000 mg/kg - Rat
Information refers to the main constituent
Not classified as harmful if swallowed
Unpublished reports
- Acute inhalation toxicity : Information refers to the main constituent
Irritating to respiratory system.
internal evaluation
- Acute dermal toxicity : 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 : Causes severe burns.
Method: OECD Test Guideline 404
Information refers to the main constituent
Unpublished reports

Serious eye damage/eye irritation

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

Respiratory or skin sensitization

- Sensitization : Maximization Test (GPMT) - Guinea pig
Method: OECD Test Guideline 406
Information refers to the main constituent
By analogy
Not classified as sensitizing by skin contact
Unpublished reports



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Mutagenicity

Genotoxicity in vitro

: Ames test
negative
Information refers to the main constituent
By analogy
In vitro tests did not show mutagenic effects
Unpublished reports

Mutagenicity (in vitro mammalian cytogenetic test)
negative
Information refers to the main constituent
By analogy
In vitro tests did not show mutagenic effects
Unpublished reports

Chromosome aberration test in vitro
negative
Information refers to the main constituent
By analogy
In vitro tests did not show mutagenic effects
Unpublished reports

Genotoxicity in vivo

: Mutagenicity (micronucleus test)negative
Information refers to the main constituent
By analogy
In vivo tests did not show mutagenic effects
Unpublished reports

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
Method: OECD Test Guideline 421
Information refers to the main constituent
Effects on fertility
The significance of these findings for humans is not certain.
Information given is based on data obtained from similar substances.
Unpublished reports

Developmental Toxicity/Teratogenicity

: Rat
Oral



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Information refers to the main constituent
 By analogy
 Did not show teratogenic effects in animal experiments.
 Unpublished reports

Rabbit
 Oral
 Information refers to the main constituent
 By analogy
 Did not show teratogenic effects in animal experiments.
 Unpublished reports

STOT

- STOT-single exposure : Target Organs: Respiratory organs
 Toxicology Assessment:
 May cause respiratory irritation.
 Information refers to the main constituent, internal evaluation
- STOT-repeated exposure : Target Organs: Gastrointestinal tract, Liver, Respiratory Tract
 Toxicology Assessment:
 The substance or mixture is classified as specific target organ toxicant,
 repeated exposure, category 2.
 Information refers to the main constituent, By analogy, Unpublished reports
- May cause damage to organs through prolonged or repeated exposure if
 swallowed. - Rat
 Target Organs: Gastrointestinal tract, Liver, Respiratory Tract
 Information refers to the main constituent
 By analogy
 Repeated dose (28 days) toxicity (oral)
 Unpublished reports

Aspiration toxicity

- Aspiration toxicity : May be fatal if swallowed and enters airways.

SECTION 12: Ecological information**12.1 Toxicity**

no data available

Aquatic Compartment

- Acute toxicity to fish : LC50 - 96 h : 0.42 mg/l - Danio rerio (zebra fish)
 Method: OECD Test Guideline 203
 Information refers to the main constituent
 Very toxic to fish.
 Unpublished reports



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- Acute toxicity to daphnia and other aquatic invertebrates. : EC50 - 48 h : 0.15 mg/l - Daphnia magna (Water flea)
Method: OECD Test Guideline 202
Information refers to the main constituent
Very toxic to aquatic invertebrates.
Unpublished reports
- Toxicity to aquatic plants : ErC50 - 72 h : 0.05 mg/l - Pseudokirchneriella subcapitata
Method: OECD Test Guideline 201
Information refers to the main constituent
Very toxic to algae.
Unpublished reports
- Ecotoxicity assessment**
- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.
- M-Factor**
- 1-Dodecanamine : Acute aquatic toxicity = 10
Chronic aquatic toxicity = 1
(according to the Globally Harmonized System (GHS))

12.2 Persistence and degradability**Biodegradability**

- Biodegradability : Not readily biodegradable.
Information refers to the main constituent
- Inherently biodegradable.
Information refers to the main constituent
- Method: OECD Test Guideline 301 B
60 % - 28 d
Information refers to the main constituent
By analogy
The 10 day time window criterion is not fulfilled.
CO2 evolution test
Unpublished reports

12.3 Bioaccumulative potential

- Bioconcentration factor (BCF) : Information refers to the main constituent
By analogy
Bioaccumulative
Unpublished reports

12.4 Mobility in soil

no data available

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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 : Information refers to the main constituent
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. 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 3259

14.2 Dangerous Good Description UN 3259 AMINES, SOLID, CORROSIVE, N.O.S., MOLTEN (fatty acid derived amines), 8, II

14.3 Transport hazard class 8

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14.4 Packing group

Packing group II
 Label(s) 8
 ERG No 154

14.5 Environmental hazards

Marine pollutant YES

TDG

14.1 UN number UN 3259

14.2 Dangerous Good Description UN 3259 AMINES, SOLID, CORROSIVE, N.O.S., MOLTEN (fatty acid derived amines), 8, II

14.3 Transport hazard class 8

14.4 Packing group

Packing group II
 Label(s) 8
 ERG No 154

14.5 Environmental hazards

Marine pollutant YES

IMDG

14.1 UN number UN 3259

14.2 Dangerous Good Description UN 3259 AMINES, SOLID, CORROSIVE, N.O.S., MOLTEN (fatty acid derived amines), 8, II, IMDG Code Segregation Group 18 - Alkalis

IMDG Code segregation group Alkalis

14.3 Transport hazard class 8

14.4 Packing group

Packing group II
 Label(s) 8
 EmS F-A , S-B

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 3259

14.2 Dangerous Good Description UN 3259 AMINES, SOLID, CORROSIVE, N.O.S., MOLTEN (fatty acid derived amines), 8, II

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<u>14.3 Transport hazard class</u>	8
<u>14.4 Packing group</u>	
Packing group	II
Label(s):	8
Packing instruction (cargo aircraft)	863
Max net qty / pkg	50.00 kg
Packing instruction (passenger aircraft)	859
Max net qty / pkg	15.00 kg


<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.

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

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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.

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

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Further information

Date issued : 09/28/2018
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.