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

1.1 Product identifier

- Trade name MACKINE 301U
- Synonyms STEARAMIDOPROPYL DIMETHYLAMINE

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

Uses of the Substance / Mixture

- Cosmetics, personal care products

1.3 Details of the supplier of the safety data sheet

Company

Solvay USA Inc.,
NOVECARE
504 Carnegie Center
Princeton, NJ, 08540, US
Telephone Number: 800-973-7873

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)

Combustible dust	May form combustible dust concentrations in air.
Serious eye damage, Category 1	H318: Causes serious eye damage.

2.2 Label elements

HCS 2012 (29 CFR 1910.1200)

Pictogram

Signal Word

- Danger

Hazard Statements

- May form combustible dust concentrations in air.
- H318 Causes serious eye damage.

Precautionary Statements

Prevention

- P280 Wear eye protection/ face protection.

Response

- P305 + P351 + P338 + P310 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/doctor.

2.3 Other hazards which do not result in classification

- H400: Very toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

3.1 Substance

Hazardous Ingredients and Impurities

Chemical name	Identification number CAS-No.	Concentration [%]
Stearylamidopropyl Dimethylamine	7651-02-7	>= 95 - < 99
Octadecanoic acid	57-11-4	>= 1 - < 5

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.

In case of inhalation

- Negligible or unlikely exposure pathways
- If breathed in, move person into fresh air.
- Consult a physician if necessary.

In case of skin contact

- Take off contaminated clothing and shoes immediately.
- Wash off immediately with soap and plenty of water.
- Wash immediately and thoroughly for a prolonged period (at least 15 minutes).
- If skin irritation persists, call a physician.

In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Get immediate medical advice/ attention.

In case of ingestion

- Do not induce vomiting without medical advice.
- If victim is conscious:
- Rinse mouth with water.
- Keep at rest.
- 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

Effects

- 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	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

- Under fire conditions:
- Will burn

- Risk of dust explosion.
- 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 decomposition products formed under fire conditions.

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 fire fighting methods

- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Further information

- Standard procedure for chemical fires.
- Cool containers/tanks with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid contact with eyes, skin, and respiratory system.
- Provide adequate ventilation.
- Wear suitable protective clothing.
- Wear suitable gloves.
- Tightly fitting safety goggles
- Stop leak if safe to do so.
- If spillage occurs on the public highway, indicate the danger and notify the authorities (police, fire service).

6.2 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

- Stop leak if safe to do so.

Prohibition

- The product should not be allowed to enter drains, water courses or the soil.
- Avoid dust formation.
- Use only non-sparking tools.

Recovery

- Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
- Allow to solidify.
- Shovel into suitable container for disposal.
- Keep in properly labeled containers.
- Keep in suitable, closed containers for disposal.

Decontamination / cleaning

- Clean contaminated surface thoroughly.
- Wash nonrecoverable remainder with large amounts of water.
- Recover the cleaning water for subsequent disposal.

- Decontaminate tools, equipment and personal protective equipment in a segregated area.

Decontamination / cleaning
- Wash nonrecoverable remainder with large amounts 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

- Material can create slippery conditions.

6.4 Reference to other sections

- no data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Potential dust explosion hazard.
- Do not use sparking tools.
- Use explosion-proof equipment.
- This powder should not be flowed through non-conductive ducts or pipes
- Mixture may charge electrostatically: always use grounding leads when transferring from one container to another.
- Use only appropriately classed electrical equipment.

- Avoid inhalation, ingestion and contact with skin and eyes.
- Avoid splashes.
- Handle in accordance with good industrial hygiene and safety practice.

- Handle in accordance with good industrial hygiene and safety practice.
- Do not breathe vapors/dust.
- Avoid dust formation.
- Avoid allowing the dust to build up. Clean regularly.

- 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/Storage conditions

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Does not require any specific or particular measures.
- Stable under normal conditions.

- Keep container tightly closed in a dry and well-ventilated place.

- Keep away from open flames, hot surfaces and sources of ignition.
- Keep away from direct sunlight.
- Keep away from incompatible materials to be indicated by the manufacturer

- Keep away from: Do not mix with incompatible materials (See list, section 10).

Packaging material

Suitable material
- Paper bags

Unsuitable material
- Carbon steel
- Stainless steel 304L

Requirements for storage rooms and vessels

Recommended storage temperature: < 86 °F (< 30 °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. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters

Components with workplace occupational exposure limits

Ingredients	Value type	Value	Basis
Octadecanoic acid	TWA	10 mg/m3	American Conference of Governmental Industrial Hygienists
Particulates not otherwise regulated	PEL	15 mg/m3	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
	Form of exposure : Total dust		
Particulates not otherwise regulated	PEL	5 mg/m3	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
	Form of exposure : Respirable fraction		
Particles (insoluble or poorly soluble) not otherwise specified	TWA	10 mg/m3	American Conference of Governmental Industrial Hygienists

	Form of exposure : Inhalable fraction		
Particles (insoluble or poorly soluble) not otherwise specified	TWA	3 mg/m3	American Conference of Governmental Industrial Hygienists
	Form of exposure : Respirable fraction		
Octadecanoic acid	TWA	10 mg/m3	American Conference of Governmental Industrial Hygienists

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
- Ensure that extracted air cannot be returned to the workplace through the ventilation system.
- Facilities and equipment easily cleanable.
- Avoid splashes.

- Effective exhaust ventilation system

Individual protection measures

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

- Recommended preventive skin protection
- Gloves

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

Skin and body protection

- Full protective suit
- Impervious clothing
- Footwear protecting against chemicals

- Preventive skin protection
- 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
- 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.

- Ensure that eyewash stations and safety showers are close to the workstation location.
- Emergency equipment immediately accessible, with instructions for 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: Wax., flakes Physical state: solid Color: light yellow
Odor	unpleasant amine-like
Odor Threshold	no data available
pH	ca. 9.0 (1 %) Aqueous solution
Melting point/freezing point	Melting point/range: 151 - 156 °F (66 - 69 °C)
Initial boiling point and boiling range	Boiling point/boiling range: > 392 °F (> 200 °C) (760 mmHg (1,013.25 hPa))
Flash point	> 302 °F (> 150 °C) closed cup Flammability class: Will burn
Evaporation rate (Butylacetate = 1)	< 1
Flammability (solid, gas)	May form combustible dust concentrations in air.
Flammability / Explosive limit	no data available
Autoignition temperature	no data available
Vapor pressure	< 0.1 mmHg (0.13 hPa) (77 °F (25 °C))
Vapor density	3.1
Density	
Relative density	ca. 0.91 (77 °F (25 °C))

Solubility	Water solubility: slightly soluble
Partition coefficient: n-octanol/water	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

9.2 Other information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

- Stable at normal ambient temperature and pressure.

10.2 Chemical stability

- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

- No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

- Keep away from heat and sources of ignition.
- Keep away from flames and sparks.

10.5 Incompatible materials

- Strong acids
- Strong bases
- Strong oxidizing agents
- Strong reducing agents

10.6 Hazardous decomposition products

- On combustion or on thermal decomposition (pyrolysis), releases:
- Nitrogen oxides (NOx)
- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Stearylamidopropyl Dimethylamine	LD50 : > 2,000 mg/kg - Rat , female Method: OECD Test Guideline 423 The product has a low acute toxicity Unpublished reports

Acute inhalation toxicity — no data available

Acute dermal toxicity

Stearylamidopropyl Dimethylamine	LD50 : > 2,000 mg/kg - Rabbit , male and female Method: according to a standardized method No mortality observed at this dose. tested on C8-C18 and C18-unsatd. By analogy Published data

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

Skin corrosion/irritation

Stearylamidopropyl Dimethylamine	Rabbit Mild skin irritation Method: OECD Test Guideline 404 Unpublished reports

Serious eye damage/eye irritation — Risk of serious damage to eyes.

Respiratory or skin sensitization — Guinea pig
Does not cause skin sensitization.

Mutagenicity

Genotoxicity in vitro — Ames test
Strain: Salmonella typhimurium
with and without metabolic activation
negative

Genotoxicity in vivo — no data available

Carcinogenicity — no data available

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

NTP
IARC
OSHA

Toxicity for reproduction and development

Toxicity to reproduction / fertility

Stearylamidopropyl Dimethylamine	Reproduction / developmental toxicity screening test - Rat Oral Method: OECD Test Guideline 421 Gavage General Toxicity Parent NOAEL: 200 mg/kg General Toxicity F1 NOAEL: 200 mg/kg General Toxicity Parent NOAEL: 70 mg/kg General Toxicity F1 NOAEL: 70 mg/kg Unpublished reports By analogy Dermal General Toxicity Parent NOAEL: >= 200 mg/kg Method: OECD Test Guideline 411 No effect observed in male or female reproductive system in repeated dose tox studies ., tested on C18, Unpublished reports

Developmental Toxicity/Teratogenicity

Stearylamidopropyl Dimethylamine	Dermal General Toxicity Maternal NOAEL: 100 mg/kg Teratogenicity NOAEL:200mg/kg Method: OECD Test Guideline 414 tested on C18, By analogy, Unpublished reports Oral General Toxicity Maternal NOAEL: 70 mg/kg Teratogenicity NOAEL:200mg/kg Method: OECD Test Guideline 421 tested on C18, By analogy, Unpublished reports

STOT

STOT-single exposure

Stearylamidopropyl Dimethylamine	Routes of exposure: Ingestion, Skin contact The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria., internal evaluation

STOT-repeated exposure

Stearylamidopropyl Dimethylamine	Routes of exposure: Ingestion, Skin contact The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria., internal evaluation
Stearylamidopropyl Dimethylamine	Oral 14 Days - Rat , male and female NOAEL: Method: according to a standardized method Gavage Subacute toxicity Unpublished reports

Dermal 90 Days - Rabbit , male and female
LOAEL: >= 200 mg/kg bw/day
Systemic effects

Dermal 90 Days - Rabbit , male and female
LOAEL: >= 5 mg/kg bw/day

Method: OECD Test Guideline 411
Unpublished reports

Experience with human exposure no data available

Aspiration toxicity no data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic Compartment

Acute toxicity to fish

Stearylamidopropyl Dimethylamine	LC50 - 96 h : > 0.1 - < 1 mg/l - Oncorhynchus mykiss (rainbow trout) static test Analytical monitoring: no Method: OECD Test Guideline 203 Very toxic to fish. Unpublished reports

Acute toxicity to daphnia and other aquatic invertebrates.

Stearylamidopropyl Dimethylamine	EC50 - 48 h : 0.381 mg/l - Daphnia magna (Water flea) semi-static test Analytical monitoring: yes Method: OECD Test Guideline 202 Very toxic to aquatic invertebrates. Unpublished reports

Toxicity to aquatic plants

Stearylamidopropyl Dimethylamine	ErC50 - 72 h : 0.140 mg/l - Desmodesmus subspicatus (green algae) static test Analytical monitoring: yes Method: OECD Test Guideline 201 Very toxic to algae. Unpublished reports EC10 - 72 h : 0.071 mg/l - Desmodesmus subspicatus (green algae) static test Analytical monitoring: yes Method: OECD Test Guideline 201 Toxic to algae with long lasting effects. Unpublished reports

Toxicity to microorganisms

Stearylamidopropyl Dimethylamine	NOEC - 3 h : 100 mg/l - activated sludge static test Analytical monitoring: no Method: OECD Test Guideline 209 Unpublished reports

Chronic toxicity to fish

Stearylamidopropyl Dimethylamine	NOEC: 0.1 mg/l - 9 d - Danio rerio (zebra fish) semi-static test Analytical monitoring: yes Method: OECD Test Guideline 212 Toxic to fish with long lasting effects. Unpublished reports

Chronic toxicity to daphnia and other aquatic invertebrates.

Stearylamidopropyl Dimethylamine	NOEC: 0.2 mg/l - 21 d - Daphnia magna (Water flea) semi-static test Analytical monitoring: yes Method: OECD Test Guideline 211 Harmful to aquatic invertebrates with long lasting effects. Unpublished reports

Chronic Toxicity to aquatic plants	no data available

Sediment compartment

Toxicity to benthic organisms

Stearylamidopropyl Dimethylamine	NOEC: 62.5 mg/kg dry weight (d.w.)Duration: 28 Days Species: Lumbriculus variegatus By analogy NOEC: 250 mg/kg dry weight (d.w.)Duration: 96 h Species: Caenorhabditis elegans Method: according to a standardized method By analogy

Terrestrial Compartment

Toxicity to soil dwelling organisms

Stearylamidopropyl Dimethylamine	NOEC: 250 mg/kg - 54 d - Eisenia fetida (earthworms) Method: OECD Test Guideline 222 By analogy Unpublished reports NOEC: 500 mg/kg - 28 d - Folsomia candida Method: ISO 11267 By analogy Unpublished reports NOEC: 10 mg/kg - 28 d - soil micro-organisms Method: OECD Test Guideline 216 By analogy Unpublished reports

M-Factor

Stearylamidopropyl Dimethylamine	Acute aquatic toxicity = 1 (according to the Globally Harmonized System (GHS))

12.2 Persistence and degradability

Abiotic degradation — no data available

Physical- and photo-chemical elimination — no data available

Biodegradation

Biodegradability

Stearylamidopropyl Dimethylamine	Ready biodegradability study: Method: OECD Test Guideline 301 B 88 % - 28 d The 10 day time window criterion is fulfilled. The substance fulfills the criteria for ultimate aerobic biodegradability and ready biodegradability Theoretical carbon dioxide production Inoculum: activated sludge Conc. in standard unit mg / l: 20 mg/l Unpublished reports

Degradability assessment

Stearylamidopropyl Dimethylamine	The product is considered to be rapidly degradable in the environment

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water	no data available

Bioconcentration factor (BCF)

Stearylamidopropyl Dimethylamine	No bioaccumulation is to be expected (log Pow <= 4).

12.4 Mobility in soil

Adsorption potential (Koc)

Stearylamidopropyl Dimethylamine	Adsorption/Soil Log Koc: 3 - 5.7 Method: OECD Test Guideline 106 By analogy Unpublished reports
Known distribution to environmental compartments	no data available

12.5 Results of PBT and vPvB assessment

Stearylamidopropyl Dimethylamine	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

Ecotoxicity assessment

Acute aquatic toxicity	According to the available data on the constituents Very toxic to aquatic life.
Chronic aquatic toxicity	According to the available data on the constituents Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Disposal

- Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS 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

- Environmental Protection Agency
- Hazardous Waste – NO

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 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-[3-(dimethylamino)propyl]stearamide)
14.3 Transport hazard class	9
Label(s)	9
14.4 Packing group	
Packing group	III
ERG No	171
14.5 Environmental hazards	YES
Marine pollutant	Marine Pollutant

TDG

14.1 UN number	UN 3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-[3-(dimethylamino)propyl]stearamide)
14.3 Transport hazard class	9
Label(s)	9
14.4 Packing group	
Packing group	III
ERG No	171
14.5 Environmental hazards	YES
Marine pollutant	Marine Pollutant

NOM

no data available

IMDG

14.1 UN number	UN 3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-[3-(dimethylamino)propyl]stearamide)
IMDG Code segregation group	Not Relevant

14.3 Transport hazard class	9
Label(s)	9
14.4 Packing group	
Packing group	III
14.5 Environmental hazards	YES
Marine pollutant	
14.6 Special precautions for user	
EmS	F-A , S-F

For personal protection see section 8.

IATA

14.1 UN number	UN 3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-[3-(dimethylamino)propyl]stearamide)
14.3 Transport hazard class	9
Label(s):	9
14.4 Packing group	
Packing group	III
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	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.

SECTION 15: Regulatory information

15.1 Notification status

Inventory Information	Status
United States TSCA Inventory	- Listed on Inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australia Inventory of Chemical Substances (AICS)	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory
Taiwan Chemical Substance Inventory (TCSI)	- Listed on Inventory

15.2 Federal Regulations

US. EPA EPCRA SARA Title III

SARA Hazard Designation Sections 311/312 (40 CFR 370)

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

Section 313 Toxic Chemicals (40 CFR 372.65)
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.

Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)
This material does not contain any components with a section 302 EHS TPQ.

Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)
This material does not contain any components with a SARA 302 RQ.

Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)
This material does not contain any components with a section 304 EHS RQ.

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

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

15.3 State Regulations

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 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 (National Fire Protection Association) - Classification

Health	2 moderate
Flammability	1 slight
Instability or Reactivity	0 minimal

HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification

Health	2 moderate
Flammability	1 slight
PPE	Determined by User; dependent on local conditions

Further information

- Product evaluated under the US GHS format.
- This sheet was updated (refer to the date at the top of this page). Subheadings and text which have been modified since the previous version are indicated with two vertical bars.

Date Prepared: 10/23/2017

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
- NTP	National Toxicology Program
- IARC	International Agency for Research on Cancer
- NIOSH	National Institute for Occupational Safety and Health