

## FENTAMINE A18

Revision Date 04/18/2017

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

- Trade name FENTAMINE A18

**1.2 Relevant identified uses of the substance or mixture and uses advised against****Uses of the Substance / Mixture**

- Antistatic agents
- Corrosion inhibitor
- Emulsifier
- Intermediate
- Cosmetics, personal care products

**Remarks**

- For professional and industrial installation and use only.

**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)**

Skin irritation, Category 2  
Serious eye damage, Category 1  
Specific target organ systemic toxicity - repeated exposure, Category 2

Aspiration hazard, Category 1

H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H373: May cause damage to organs through prolonged or repeated exposure. (Gastrointestinal tract, Liver, Immune system)  
H304: May be fatal if swallowed and enters airways.

## 2.2 Label elements

**HCS 2012 (29 CFR 1910.1200)****Pictogram****Signal Word**

- Danger

**Hazard Statements**

- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H373 May cause damage to organs (Gastrointestinal tract, Liver, Immune system) through prolonged or repeated exposure.

**Precautionary Statements**Prevention

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

Response

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- 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. Get medical advice/ attention if you feel unwell.
- P314 Get medical advice/ attention if you feel unwell.
- P331 Do NOT induce vomiting.
- P332 + P313 If skin irritation occurs: Get medical advice/ attention.
- P362 Take off contaminated clothing and wash before reuse.

Storage

- 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.
- This product as shipped is not a combustible dust, however if small particles are generated during further processing, handling or by other means, combustible dust concentrations may form in the air.

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

## 3.1 Substance

- Chemical nature Amines

**FENTAMINE A18**

Revision Date 04/18/2017

**Hazardous Ingredients and Impurities**

Chemical name	Identification number CAS-No.	Concentration [%]
1-Octadecanamine	124-30-1	$\geq 90 - < 95$
1-Hexadecanamine	143-27-1	$\geq 5 - < 10$
1-Eicosanamine	10525-37-8	$\geq 1 - < 5$

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**

- Plan first aid action before beginning work with this product.
- First responder needs to protect himself.
- Do not leave the victim unattended.
- Show this material safety data sheet to the doctor in attendance.
- Place affected apparel in a sealed bag for subsequent decontamination.

**In case of inhalation**

- Move to fresh air in case of accidental inhalation of vapors.
- Keep at rest.
- If symptoms persist, call a physician.

**In case of skin contact**

- In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- If skin irritation occurs, seek medical advice/attention.
- Wash contaminated clothing before re-use.

**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**

- If victim is conscious:
- Rinse mouth with water.
- 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.
- Get medical attention.

**4.2 Most important symptoms and effects, both acute and delayed****Effects**

- Skin contact may aggravate existing skin disease

## FENTAMINE A18

Revision Date 04/18/2017

- 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**

- Foam
- Multipurpose powders
- Carbon dioxide (CO2)

**Unsuitable extinguishing media**

- In case of fire, never use water
- (burning material will float)

**5.2 Special hazards arising from the substance or mixture****Specific hazards during fire fighting**

- Under fire conditions:
- Will burn
- Hazardous decomposition products formed under fire conditions.

**Hazardous combustion products:**

- On combustion or on thermal decomposition (pyrolysis), releases:
- Carbon oxides
- Nitrogen oxides (NOx)

**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**

- In case of fire, never use water
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Cool down the containers / equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product.

**Further information**

- 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.

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

- Use personal protective equipment.
- Tightly fitting safety goggles
- Face-shield
- Wear suitable gloves.
- Wear suitable protective clothing.
- Avoid contact with the skin and the eyes.
- In the case of dust or aerosol formation use respirator with an approved filter.
- 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**

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Contain the spilled material by diking.
- The product should not be allowed to enter drains, water courses or the soil.
- If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal.
- If the product contaminates rivers and lakes or drains inform respective authorities.
- Local authorities should be advised if significant spillages cannot be contained.
- 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 leak if safe to do so.
- Dam up.

**Recovery**

- Shovel into suitable container for disposal.
- Keep in properly labeled containers.

**Decontamination / cleaning**

- Wash with plenty of water and detergent.
- Clean contaminated surface thoroughly.
- Recover the cleaning water for subsequent disposal.

**Disposal**

- Dispose of in accordance with local regulations.

**Additional advice**

- Only qualified personnel equipped with suitable protective equipment may intervene.
- Mark the contaminated area with signs and prevent access to unauthorized personnel.

- Prevent unauthorized persons entering the zone.
- Ventilate the area.

#### 6.4 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

- Provide sufficient air exchange and/or exhaust in work rooms.
- Do NOT handle in a confined space.
- Avoid inhalation, ingestion and contact with skin and eyes.
- Do NOT handle without gloves.
- Do NOT handle if hands have any cuts or wounds.

#### 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.
- Store in original container.
- Keep in a contained area
- The floor of the storage area should be impermeable and designed to form a water-tight basin.
- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Keep away from open flames, hot surfaces and sources of ignition.
- 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

- Plastic materials.
- Stainless steel
- Coated steels.

##### Requirements for storage rooms and vessels

**Recommended storage temperature:** 39 - 120 °F (4 - 49 °C)

#### 7.3 Specific end use(s)

- no data available

**FENTAMINE A18**

Revision Date 04/18/2017

**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**

- Contains no substances with occupational exposure limit values.

**Components with workplace occupational exposure limits**

Ingredients	Value type	Value	Basis
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			

## FENTAMINE A18

Revision Date 04/18/2017

**Hazardous components without workplace control parameters**

Chemical name	Identification number CAS-No.	Exposure Limit Values
1-Octadecanamine	124-30-1	None
1-Hexadecanamine	143-27-1	None
1-Eicosanamine	10525-37-8	None

**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 adequate ventilation.
- Extract at emission point.
- Ensure that extracted air cannot be returned to the workplace through the ventilation system.
- Avoid splashes.
- Avoid formation of aerosol.

**Individual protection measures****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.
- Use a respirator with an approved filter if a risk assessment indicates this is necessary.
- Recommended Filter type: Ammonia/amines type

**Hand protection**

- Where there is a risk of contact with hands, use appropriate gloves
- Gloves must be inspected prior to use.
- 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 should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

**Suitable material**

- Impervious 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
  - In case of contact through splashing:
    - Face-shield

**Skin and body protection**

- Preventive skin protection
- Impervious clothing
- Footwear protecting against chemicals
- Protective suit
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.



## FENTAMINE A18

Revision Date 04/18/2017

**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**

- Emergency equipment immediately accessible, with instructions for use.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- 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.
- The protective equipment must be selected in accordance with current local standards and in cooperation with the supplier of the protective equipment.

**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

**Molecular weight**

ca. 269.5 g/mol

**pH**

Not applicable

**Melting point/freezing point**

Melting point/freezing point: 104 - 133 °F (40 - 56 °C)

**Initial boiling point and boiling range**

Boiling point/boiling range: 660 °F (349 °C) ( 0.76 mmHg (1.013 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**

no data available

**Vapor pressure**

no data available

**Vapor density**

no data available

## FENTAMINE A18

Revision Date 04/18/2017

<b>Density</b>	ca. 0.8 g/cm <sup>3</sup> ( 68 °F (20 °C))
<b>Relative density</b>	ca. 0.8 ( 68 °F (20 °C))
<b>Solubility</b>	<u>Water solubility:</u> < 0.1 mg/l
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Viscosity</b>	no data available
<b>Explosive properties</b>	no data available
<b>Oxidizing properties</b>	Not considered as oxidizing., Structure-activity relationship (SAR)

**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 normal conditions.

**10.3 Possibility of hazardous reactions**

- No dangerous reaction known under conditions of normal use.

**polymerization**

- Hazardous polymerization does not occur.

**10.4 Conditions to avoid**

- Keep away from open flames, hot surfaces and sources of ignition.
- Avoid excessive heat for prolonged periods of time.

**10.5 Incompatible materials**

- Strong oxidizing agents
- Strong acids

**10.6 Hazardous decomposition products**

- On combustion or on thermal decomposition (pyrolysis), releases:
- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
- Nitrogen oxides (NO<sub>x</sub>)

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

1-Octadecanamine

LD50 : > 2,000 mg/kg - Rat  
 Method: OECD Test Guideline 401  
 Not classified as harmful if swallowed  
 Unpublished reports  
 no data available

**Acute inhalation toxicity****Acute dermal toxicity**

1-Octadecanamine

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**

1-Octadecanamine

Irritating to skin.  
 Method: OECD Test Guideline 404  
 Unpublished reports

**Serious eye damage/eye irritation**

1-Octadecanamine

Risk of serious damage to eyes.  
 Method: OECD Test Guideline 405  
 Unpublished reports

**Respiratory or skin sensitization**

no data available

**Mutagenicity****Genotoxicity in vitro**

1-Octadecanamine

Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
 with and without metabolic activation

negative

**Genotoxicity in vivo**

1-Octadecanamine

Mutagenicity (micronucleus test)  
 negative  
 Information given is based on data obtained from similar substances.  
 Unpublished reports

Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
 negative  
 Information given is based on data obtained from similar substances.  
 Unpublished reports

## FENTAMINE A18

Revision Date 04/18/2017

**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**

1-Octadecanamine

Rat

No effect observed in male or female reproductive system in repeated dose tox studies .

Information given is based on data obtained from similar substances.  
Unpublished reports

By analogy

no impairment of fertility has been observed  
Unpublished reports

**Developmental Toxicity/Teratogenicity**

1-Octadecanamine

Did not show teratogenic effects in animal experiments.  
Information given is based on data obtained from similar substances.  
Unpublished reports

Method: OECD Test Guideline 414

By analogy

No effect observed on development  
Unpublished reports

**STOT****STOT-single exposure**

1-Octadecanamine

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**

1-Octadecanamine

Target Organs: Gastrointestinal tract, Liver, Immune system

May cause damage to organs through prolonged or repeated exposure.  
internal evaluation, Unpublished reports

1-Octadecanamine

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.

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic Compartment****Acute toxicity to fish**

1-Octadecanamine

LC50 - 96 h : &lt; 10 mg/l - Danio rerio (zebra fish)

Method: OECD Test Guideline 203

Toxic to fish.

Unpublished reports

LC50 - 96 h : &gt; 1 mg/l - Danio rerio (zebra fish)

Method: OECD Test Guideline 203

Toxic to fish.

Unpublished reports

**Acute toxicity to daphnia and other aquatic invertebrates.**

1-Octadecanamine

EC50 - 48 h : 0.13 mg/l - Daphnia magna (Water flea)

Method: OECD Test Guideline 202

Very toxic to aquatic organisms.

Unpublished reports

**Toxicity to aquatic plants**

1-Octadecanamine

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

Method: OECD Test Guideline 201

Very toxic to algae.

Growth rate

Unpublished reports

**Toxicity to microorganisms**

no data available

**Chronic toxicity to fish**

no data available

**Chronic toxicity to daphnia and other aquatic invertebrates.**

no data available

**Chronic Toxicity to aquatic plants**

1-Octadecanamine

ErC10: 0.029 mg/l - 72 h - Scenedesmus subspicatus

Method: OECD Test Guideline 201

Unpublished reports

**M-Factor**

1-Octadecanamine

Acute aquatic toxicity = 10

( 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**

1-Octadecanamine

Method: OECD Test Guideline 301  
70 % - 28 d  
Readily biodegradable.  
Theoretical oxygen demand  
The 10 day time window criterion is not fulfilled.  
Unpublished reports

**12.3 Bioaccumulative potential****Partition coefficient: n-octanol/water**

no data available

**Bioconcentration factor (BCF)**

1-Octadecanamine

By analogy  
Bioaccumulative  
internal evaluation

**12.4 Mobility in soil****Adsorption potential (Koc)**

no data available

**Known distribution to environmental compartments**

no data available

**12.5 Results of PBT and vPvB assessment**

1-Octadecanamine

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**

no data available

**Ecotoxicity assessment****Acute aquatic toxicity**

According to the data on the constituents  
Very toxic to aquatic life.

**Chronic aquatic toxicity**

According to the data on the constituents  
Very toxic to aquatic life with long lasting effects.

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

PRCO90063550

Version : 1.02 / US ( Z8 )

www.solvay.com



**Product Disposal****Prohibition**

- Do not discharge directly into the environment.
- Do not dispose of with domestic refuse.
- 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.
- Dispose of as hazardous waste in compliance with local and national regulations.

**Advice on cleaning and disposal of packaging**

- Empty the packaging completely prior to disposal.
- Dispose of contents/ container to an approved waste disposal plant.
- Dispose of as hazardous waste in compliance with local and national regulations.
- In accordance with RID / ADR regulations containers or tankers that have not been cleaned or deodorized and that previously contained a hazardous product, must either be labeled or have hazard signs.

**Measure for waste avoidance or recovery**

- Do not dispose of the product at a dump.

**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**

<b>14.1 UN number</b>	UN 3077
<b>14.2 Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Octadecylamine)
<b>14.3 Transport hazard class</b>	9
<b>Label(s)</b>	9
<b>14.4 Packing group</b>	
<b>Packing group</b>	III
<b>ERG No</b>	171
<b>14.5 Environmental hazards</b>	YES
<b>Marine pollutant</b>	Marine Pollutant

**TDG**

<b>14.1 UN number</b>	UN 3077
-----------------------	---------

## FENTAMINE A18

Revision Date 04/18/2017

**14.2 Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Octadecylamine)

**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.  
(Octadecylamine)  
**IMDG Code segregation group** Alkalis

**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.



## FENTAMINE A18

Revision Date 04/18/2017

**IATA**

<b>14.1 UN number</b>	UN 3077
<b>14.2 Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Octadecylamine)
<b>14.3 Transport hazard class</b>	9
Label(s):	9
<b>14.4 Packing group</b>	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
<b>14.5 Environmental hazards</b>	YES
<b>14.6 Special precautions for user</b>	
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

**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	yes

**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.

**FENTAMINE A18**

Revision Date 04/18/2017

**Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)**

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

**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	3 serious
Flammability	1 slight
Instability or Reactivity	0 minimal

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

Health	3 serious
Flammability	1 slight
Reactivity	0 minimal
PPE	Determined by User; dependent on local conditions

**Further information**

- Product evaluated under the US GHS format.

**Date Prepared:** 04/18/2017

**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

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 any other 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.