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

1.1 Product identifier
- Trade name: NOCOLOK® ULTRA FLUX PASTE 32HV

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

Uses of the Substance / Mixture
- Automotive industry
- Paints & coating
- Welding and soldering agents

1.3 Details of the supplier of the safety data sheet

Company:
SOLVAY FLUORIDES, LLC
3737 Buffalo Speedway,
Suite 800,
Houston, TX 77098
USA
Tel: 800-515-6065

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)
- Acute toxicity, Category 4
- Eye irritation, Category 2A
- Effects on or via lactation
- Specific target organ systemic toxicity - repeated exposure, Category 1

H332: Harmful if inhaled.
H319: Causes serious eye irritation.
H362: May cause harm to breast-fed children.
H372: Causes damage to organs through prolonged or repeated exposure if inhaled. (Respiratory Tract), Inhalation

2.2 Label elements

HCS 2012 (29 CFR 1910.1200)

Pictogram

Signal Word
- Danger
Hazard Statements
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H362 May cause harm to breast-fed children.
- H372 Causes damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

Precautionary Statements
Prevention
- P201 Obtain special instructions before use.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
- P263 Avoid contact during pregnancy/ while nursing.
- 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 eye protection/ face protection.
Response
- P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P337 + P313 If eye irritation persists: Get medical advice/ attention.

2.3 Other hazards which do not result in classification
- H402: Harmful to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients
3.1 Substance
- Not applicable, this product is a mixture.
3.2 Mixture

Hazardous Ingredients and Impurities

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Identification number CAS-No.</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum potassium fluoride</td>
<td>60304-36-1</td>
<td>&gt;= 30 - &lt; 40</td>
</tr>
<tr>
<td>1,3-dipropylcyclohexane; 2-methylundecane; undecane</td>
<td>64742-47-8</td>
<td>&gt;= 10 - &lt; 15</td>
</tr>
</tbody>
</table>

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

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

In case of inhalation
- Move to fresh air.
- Oxygen or artificial respiration if needed.
- Get medical attention immediately if symptoms occur.
In case of skin contact
- Take off contaminated clothing and wash before reuse.
- Wash off with plenty of water.
- If symptoms persist, call a physician.

In case of eye contact
- Immediate medical attention is required.
- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

In case of ingestion
- Immediate medical attention is required.
- If swallowed, rinse mouth with water (only if the person is conscious).
- Give to drink a 1% aqueous calcium gluconate solution.
- Do NOT induce vomiting.
- Artificial respiration and/or oxygen may be necessary.

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation
Symptoms
- Cough
- Sore throat
- Nose bleeding
- At high concentrations:
  - Chemical pneumonitis

Effects
- Irritating to mucous membranes
  Repeated or prolonged exposure
  - Risk of chronic bronchitis
  - Risk of chronic pulmonary inflammation

In case of skin contact
Effects
- Slight irritation
- Repeated exposure may cause skin dryness or cracking.
- Chronic exposure may cause dermatitis.

In case of eye contact
Symptoms
- Redness
- Lachrymation
- Swelling of tissue
- Burn

Effects
- Causes eye irritation.

In case of ingestion
Effects
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed
Notes to physician
- Immediate medical attention is required.
- Medical examination necessary even only on suspicion of intoxication.

SECTION 5: Firefighting measures

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flash point</strong></td>
<td>212 °F (100 °C)</td>
</tr>
<tr>
<td>Method: closed cup Liquid phase</td>
<td></td>
</tr>
<tr>
<td><strong>Autoignition temperature</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Flammability / Explosive limit</strong></td>
<td>no data available</td>
</tr>
</tbody>
</table>

5.1 Extinguishing media

**Suitable extinguishing media**
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**
- None known.

5.2 Special hazards arising from the substance or mixture
- Hazardous decomposition products formed under fire conditions.

5.3 Advice for firefighters

**Special protective equipment for fire-fighters**
- In the event of fire, wear self-contained breathing apparatus.
- Use personal protective equipment.
- Wear chemical resistant oversuit
- Cool containers/tanks with water spray.
- Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

**Advice for non-emergency personnel**
- Prevent further leakage or spillage if safe to do so.
- Keep away from incompatible products

**Advice for emergency responders**
- Immediately evacuate personnel to safe areas.
- Keep people away from and upwind of spill/leak.
- Wear self-contained breathing apparatus and protective suit.
- Ventilate the area.

6.2 Environmental precautions
- Discharge into the environment must be avoided.
- If the product contaminates rivers and lakes or drains inform respective authorities.
- Prevent product from entering sewage system.
6.3 Methods and materials for containment and cleaning up
- Dam up.
- Soak up with inert absorbent material.
- Prevent product from entering sewage system.
- Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
- Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
- Used in closed system
- Use only in well-ventilated areas.
- Keep away from heat and sources of ignition.
- Keep away from incompatible products
- Avoid inhalation, ingestion and contact with skin and eyes.

Hygiene measures
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Take off contaminated clothing and shoes immediately.
- Wash contaminated clothing before re-use.
- When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions
- Store in original container.
- Keep in a well-ventilated place.
- Keep in a dry place.
- Keep in properly labeled containers.
- Keep container closed.
- Avoid release to the environment. Refer to special instructions/ Safety data sheets.
- Keep away from:
  - Incompatible products

Packaging material

Suitable material
- Plastic materials.
- Steel

7.3 Specific end use(s)
- Contact your supplier for additional information
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

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Value type</th>
<th>Value</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum potassium fluoride</td>
<td>TWA</td>
<td>2.5 mg/m³</td>
<td>Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants</td>
</tr>
<tr>
<td>Aluminum potassium fluoride</td>
<td>TWA</td>
<td>2.5 mg/m³</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>Aluminum potassium fluoride</td>
<td>TWA</td>
<td>0.14 mg/m³</td>
<td>Solvay Acceptable Exposure Limit</td>
</tr>
<tr>
<td>1,3-dipropylcyclohexane; 2-methylundecane; undecane</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants</td>
</tr>
<tr>
<td>1,3-dipropylcyclohexane; 2-methylundecane; undecane</td>
<td>TWA</td>
<td>200 mg/m³</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>1,3-dipropylcyclohexane; 2-methylundecane; undecane</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>National Institute for Occupational Safety and Health</td>
</tr>
<tr>
<td>1,3-dipropylcyclohexane; 2-methylundecane; undecane</td>
<td>ST</td>
<td>10 mg/m³</td>
<td>National Institute for Occupational Safety and Health</td>
</tr>
<tr>
<td>1,3-dipropylcyclohexane; 2-methylundecane; undecane</td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>National Institute for Occupational Safety and Health</td>
</tr>
</tbody>
</table>

NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations)

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum potassium fluoride</td>
<td>60304-36-1</td>
<td>250 mg/m³</td>
</tr>
</tbody>
</table>
Biological Exposure Indices

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Value type</th>
<th>Value</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum potassium fluoride</td>
<td>BEI</td>
<td>2 mg/l Fluoride</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Urine</td>
<td>Prior to shift (16 hours after exposure ceases)</td>
</tr>
<tr>
<td>Aluminum potassium fluoride</td>
<td>BEI</td>
<td>3 mg/l Fluoride</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

**Control measures**

**Engineering measures**
- Provide adequate ventilation.
- Apply technical measures to comply with the occupational exposure limits.

**Individual protection measures**

**Respiratory protection**
- In case of high-temperature processing
- Respirator with a vapor filter (EN 141)
- Recommended Filter type:
  - E-P3
  - Self-contained breathing apparatus in case of: 1) large uncontrolled emissions, 2) insufficient oxygen, 3) the mask and cartridge do not give adequate protection.

**Hand protection**
- Impervious gloves

**Suitable material**
- Neoprene
  - Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

**Eye protection**
- Chemical resistant goggles must be worn.
- If splashes are likely to occur, wear:
  - Face-shield

**Skin and body protection**
- Impervious clothing
- Chemical resistant apron
- Recommended preventive skin protection
  - Neoprene

**Hygiene measures**
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Take off contaminated clothing and shoes immediately.
- Wash contaminated clothing before re-use.
- When using do not eat, drink or smoke.
### 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Form: paste, Physical state: solid, Color: yellowish-white, beige</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>neutral</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Melting point/freezing point</strong></td>
<td>Melting point/range: 1022 - 1166 °F (550 - 630 °C)</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td>Boiling point/boiling range: 392 - 572 °F (200 - 300 °C) (759.81 mmHg (1,013 hPa))</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>212 °F (100 °C) Method: closed cup</td>
</tr>
<tr>
<td><strong>Evaporation rate (Butylacetate = 1)</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Flammability (liquids)</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Flammability / Explosive limit</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Autoignition temperature</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>0.08 mmHg (0.1 hPa) (68 °F (20 °C))</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>Water solubility: practically insoluble</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>&gt; 662 °F (350 °C)</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Viscosity, dynamic: (68 °F (20 °C)) Very viscous</td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>no data available</td>
</tr>
</tbody>
</table>
**SAFETY DATA SHEET**

**NOCOLOK® ULTRA FLUX PASTE 32HV**

**Revision Date** 12/12/2017

---

**Oxidizing properties**

no data available

---

**9.2 Other information**

no data available

---

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

- no data available

**10.2 Chemical stability**

- Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

- no data available

**10.4 Conditions to avoid**

- Keep away from heat and sources of ignition.
- Protect from frost, heat and sunlight.

**10.5 Incompatible materials**

- Strong acids

**10.6 Hazardous decomposition products**

- Decomposes by reaction with strong acids.
- Hydrogen fluoride

---

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

**Acute oral toxicity**

- Aluminum potassium fluoride
  
  **LD50:** 2,150 mg/kg - Rat, female
  
  The product has a low acute toxicity

- 1,3-dipropylcyclohexane; 2-methylundecane; undecane
  
  **LD50:** > 5,000 mg/kg - Rat
  
  Method: OECD Test Guideline 401
  
  Not classified as hazardous for acute oral toxicity according to GHS.
Acute inhalation toxicity
Aluminum potassium fluoride
LC50 - 4 h (aerosol): 1 - 5 mg/l - Rat, male and female
This product is classified as acute toxicity category 4

1,3-dipropylcyclohexane; 2-methylundecane; undecane
LC50 - 8 h (aerosol): > 5 mg/l - Rat
Method: OECD Test Guideline 403
Not classified as hazardous for acute inhalation toxicity according to GHS.

Acute dermal toxicity
Aluminum potassium fluoride
LD50: > 2,000 mg/kg - Rabbit, male and female
Not classified as hazardous for acute dermal toxicity according to GHS.

1,3-dipropylcyclohexane; 2-methylundecane; undecane
LD50: > 5,000 mg/kg - Rat
Method: OECD Test Guideline 402
Not classified as hazardous for acute dermal toxicity according to GHS.

Acute toxicity (other routes of administration)
no data available

Skin corrosion/irritation
Aluminum potassium fluoride
Rabbit
No skin irritation

1,3-dipropylcyclohexane; 2-methylundecane; undecane
Rabbit
Not classified as irritating to skin
Method: OECD Test Guideline 404

Serious eye damage/eye irritation
Aluminum potassium fluoride
Rabbit
Irritating to eyes.
Method: OECD Test Guideline 405

1,3-dipropylcyclohexane; 2-methylundecane; undecane
Rabbit
Not classified as irritating to eyes
Method: OECD Test Guideline 405

Respiratory or skin sensitization
Aluminum potassium fluoride
Maximization Test - Guinea pig
Does not cause skin sensitization.
Method: OECD Test Guideline 406

1,3-dipropylcyclohexane; 2-methylundecane; undecane
Maximization Test - Guinea pig
Does not cause skin sensitization.
Method: OECD Test Guideline 406
Mutagenicity

Genotoxicity in vitro
Aluminum potassium fluoride

Ames test
with and without metabolic activation
negative
Method: OECD Test Guideline 471

In vitro micronucleus test
Strain: Human lymphocytes
with and without metabolic activation
positive
Method: OECD Test Guideline 487

Gene mutation assays in mammalian cells.
Strain: mouse lymphoma cells
with and without metabolic activation
negative
Method: OECD Test Guideline 476

Genotoxicity in vivo
Aluminum potassium fluoride

By analogy

Chromosome aberration test in vivo - Rat male
Inhalation
Method: OECD Test Guideline 475
Test substance: Cryolite
negative

Carcinogenicity

Aluminum potassium fluoride

By analogy

Rat
Test substance: fluoride
Animal testing did not show any carcinogenic effects.

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

Aluminum potassium fluoride

By analogy

Two-generation study - Rat, male and female
Oral
Fertility NOAEL Parent: $\geq 128$ mg/kg
Test substance, Cryolite

Developmental Toxicity/Teratogenicity
no data available

STOT

STOT-single exposure

Aluminum potassium fluoride

The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria.

1,3-dipropylcyclohexane; 2-methylundecane; undecane

The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria.

STOT-repeated exposure

Aluminum potassium fluoride

The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1 according to GHS criteria.

1,3-dipropylcyclohexane; 2-methylundecane; undecane

The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria.

Aluminum potassium fluoride

Inhalation (aerosol) 90-day - Rat, male and female
NOAEC: $1.21$ mg/m$^3$
Target Organs: Respiratory system, Lungs
Method: OECD Test Guideline 413

Experience with human exposure
no data available

CMR effects

Reproductive toxicity
Effects on or via lactation

Aspiration toxicity
no data available
SECTION 12: Ecological information

12.1 Toxicity

Aquatic Compartment

Acute toxicity to fish

Aluminum potassium fluoride

LC50 - 96 h: > 10 mg/l - Brachydanio rerio (zebrafish)
static test
Analytical monitoring: yes

Method: OECD Test Guideline 203
Harmful to fish.

1,3-dipropylcyclohexane; 2-methylundecane; undecane

LC0 - 96 h: > 1,000 mg/l - Oncorhynchus mykiss (rainbow trout)
Method: OECD Test Guideline 203
Not harmful to fish (LC/LL50 > 100 mg/L)

Acute toxicity to daphnia and other aquatic invertebrates.

Aluminum potassium fluoride

EC50 - 48 h: 22.8 mg/l - Daphnia magna (Water flea)
static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
Harmful to aquatic invertebrates.

1,3-dipropylcyclohexane; 2-methylundecane; undecane

EC0 - 48 h: > 1,000 mg/l - Daphnia magna (Water flea)
Method: OECD Test Guideline 202
Not harmful to aquatic invertebrates. (EC/EL50 > 100 mg/L)

Toxicity to aquatic plants

Aluminum potassium fluoride

ErC50 - 72 h: 33.5 mg/l - Pseudokirchneriella subcapitata (green algae)
static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
Harmful to algae.

NOEC - 72 h: 11.2 mg/l - Pseudokirchneriella subcapitata (green algae)
static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
Growth rate

1,3-dipropylcyclohexane; 2-methylundecane; undecane

EC0 - 72 h: > 1,000 mg/l - Pseudokirchneriella subcapitata (green algae)
static test
Method: OECD Test Guideline 201
Not harmful to algae (EC/EL50 > 100 mg/L)

Toxicity to microorganisms

Aluminum potassium fluoride

EC50 - 3 h: > 75 mg/l - activated sludge
static test
Analytical monitoring: no
Method: OECD Test Guideline 209
Chronic toxicity to fish  
no data available

Chronic toxicity to daphnia and other aquatic invertebrates.  
no data available

Chronic Toxicity to aquatic plants  
no data available

12.2 Persistence and degradability

Abiotic degradation

Stability in water
Aluminum potassium fluoride  
acid/base equilibrium as a function of pH, complexation/precipitation of inorganic and organic materials

Physical- and photo-chemical elimination  
no data available

Biodegradation

Biodegradability
Aluminum potassium fluoride  
The methods for determining the biological degradability are not applicable to inorganic substances.

1,3-dipropylcyclohexane; 2-methylundecane; undecane  
aerobic  
69 % - 28 Days  
The substance fulfills the criteria for ultimate aerobic biodegradability and ready biodegradability

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water  
no data available

Bioconcentration factor (BCF)  
Aluminum potassium fluoride  
Not applicable, inorganic substance

12.4 Mobility in soil

Adsorption potential (Koc)  
Aluminum potassium fluoride  
Adsorption/Soil  
Log Koc: 3.18

Air  
mobility as solid aerosols

Water  
low solubility and mobility

Soil/sediments  
adsorption on mineral and organic soil constituents
Known distribution to environmental compartments

no data available

12.5 Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

Ecotoxicity assessment

Acute aquatic toxicity
Harmful to aquatic life.

Chronic aquatic toxicity
Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Disposal
- In accordance with local and national regulations.
- Refer to manufacturer/supplier for information on recovery/recycling.
- Dispose of wastes in an approved waste disposal facility.
- Avoid release to the environment.
- Dispose of contents/container to an approved waste disposal plant.

Advice on cleaning and disposal of packaging
- Where possible recycling is preferred to disposal or incineration.
- If recycling is not practicable, dispose of in compliance with local regulations.
- Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

SECTION 14: Transport information

DOT
not regulated

TDG
not regulated

NOM
not regulated

IMDG
not regulated

IATA
not regulated

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

<table>
<thead>
<tr>
<th>Inventory Information</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States TSCA Inventory</td>
<td>- Listed on Inventory</td>
</tr>
<tr>
<td>Canadian Domestic Substances List (DSL)</td>
<td>- Listed on Inventory</td>
</tr>
<tr>
<td>Australia Inventory of Chemical Substances (AICS)</td>
<td>- One or more components not listed on inventory</td>
</tr>
<tr>
<td>Japan. CSCL - Inventory of Existing and New Chemical Substances</td>
<td>- Listed on Inventory</td>
</tr>
<tr>
<td>Korea. Korean Existing Chemicals Inventory (KECI)</td>
<td>- Listed on Inventory</td>
</tr>
<tr>
<td>China. Inventory of Existing Chemicals in China (IECSC)</td>
<td>- Listed on Inventory</td>
</tr>
<tr>
<td>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>- One or more components not listed on inventory</td>
</tr>
<tr>
<td>EU. European Registration, Evaluation, Authorisation and Restriction of Chemical (REACH)</td>
<td>- If product is purchased from Solvay in Europe it is in compliance with REACH, if not please contact the supplier.</td>
</tr>
<tr>
<td>Mexico INSQ (INSQ)</td>
<td>- Listed on Inventory</td>
</tr>
<tr>
<td>New Zealand. Inventory of Chemical Substances</td>
<td>- One or more components not listed on inventory</td>
</tr>
</tbody>
</table>

### 15.2 Federal Regulations

**US. EPA EPCRA SARA Title III**

**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.

**FIFRA INFORMATION**
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

Date Prepared: 12/12/2017

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

- PEL Permissible exposure limit
- ST STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
- TWA 8-hour, time-weighted average
- SAEL Solvay Acceptable Exposure Limit
- 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.