

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

#### 1.1. Product identifier:

**Product trade name:** HYPRO\* 1300X35 ATBN  
**Company product number:** X35  
**REACH registration number:** Mixture  
**Other means of identification:** Not Available

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

**Uses:** Elastomer modifier for thermoset resins.  
**Uses advised against:** None identified

#### 1.3. Details of the supplier of the safety data sheet:

**Manufacturer/Supplier:** CVC Thermoset Specialties  
240 W Emerling Avenue  
Akron, OH 44301 United States  
Telephone: +1-330-374-2501  
Customer service telephone: +1-856-533-3000

**EU Only Representative:** Penman Consulting bvba  
Avenue des Arts 10  
B-1210 Brussels  
Belgium  
Telephone: +32 (0) 2 305 0698  
email: pcbvba09@penmanconsulting.com

**For further information about this SDS:** Email: cts.customerservice@huntsmann.com

#### 1.4. Emergency telephone number:

ChemTel (24 hours): 1-800-255-3924 (USA); +1-813-248-0585 (outside USA).

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture:

##### Product classification according to Regulation (EC) 1272/2008 (CLP) as amended:

Skin Corrosion, category 1B, H314  
Skin Sensitizer, category 1, H317  
Reproductive Toxicity, category 2, H361  
STOT, repeated exposure, category 2, H373

#### 2.2. Label elements:

##### Product labeling according to Regulation (EC) 1272/2008 (CLP) as amended:

**CLP label - Contains:** ATBN Polymer, 2-Piperazin-1-ylethylamine (AEP)

**Hazard pictogram(s):**



**Signal word:**

Danger

**Hazard statements:**

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.  
 H361 Suspected of damaging fertility or the unborn child.  
 H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements:**

P201 Obtain special instructions before use.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor/physician.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.

**Supplemental information:** No Additional Information

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Annex III and ECHA Guidance on Labelling and Packaging. Regulations in individual countries/regions may determine which statements are required on the product label. See product label for specifics.

**2.3. Other hazards:**

**PBT/vPvB criteria:** Not Available  
**Other hazards:** No Additional Information

See Section 11 for toxicological information.

**SECTION 3: Composition/information on ingredients****3.2. Mixture:**

| <u>CAS-No.</u> | <u>Chemical Name</u>             | <u>Weight%</u> | <u>Classification</u>   | <u>H Statements</u>              |
|----------------|----------------------------------|----------------|---|----------------------------------|
| 0068683-29-4   | ATBN Polymer                     | 85-<95         | Skin Irrit. 2- Skin Sens. 1   | H315-317                         |
| 0000140-31-8   | 2-Piperazin-1-ylethylamine (AEP) | 5-<10          | Acute Tox. 3 Dermal- Acute Tox. 4<br>Oral- Aquatic Chronic 3- Repr. 2-<br>Skin Corr. 1B- Skin Sens. 1- STOT<br>RE 1 | H302-311-314-317-<br>361-372-412 |
| <u>CAS-No.</u> | <u>Chemical Name</u>             | <u>Weight%</u> | <u>REACH Registration No.</u>   | <u>EC/List Number</u>            |
| 0068683-29-4   | ATBN Polymer                     | 85-<95         | Polymer   | Polymer                          |
| 0000140-31-8   | 2-Piperazin-1-ylethylamine (AEP) | 5-<10          | 01-2119471486-30-0007   | 205-411-0                        |

See Section 16 for full text of H (Hazard) statements (EC 1272/2008).

**Notes:** 2-Piperazin-1-ylethylamine <7%.

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

**SECTION 4: First aid measures****4.1. Description of first aid measures:**

**General:** If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

**Eye contact:** Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. Get medical attention immediately.

**Skin contact:** Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. Get medical attention immediately.

**Inhalation:** If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a

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POISON CENTER or doctor/physician if you feel unwell.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

**Protection of first aid responders:** Wear proper personal protective clothing and equipment.

#### 4.2. Most important symptoms and effects, both acute and delayed:

Burns, Eye redness and pain, Irritation. Preexisting sensitization, skin and/or respiratory disorders or diseases may be aggravated. See section 11 for additional information.

#### 4.3. Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media:

**Suitable:** Use water spray, ABC dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures.

**Unsuitable:** None known.

#### 5.2. Special hazards arising from the substance or mixture:

**Unusual fire/explosion hazards:** Product is not considered a fire hazard, but will burn if ignited. Hot vapor or mists may be susceptible to spontaneous combustion when mixed with air. Ignition temperatures decrease with increasing vapor volume and vapor/air contact time and are influenced by pressure changes. Therefore, ignition may occur below published ignition temperatures. Use of this product in processes involving elevated-temperatures, vacuum if subject to sudden ingress of air, sudden escape of vapor or mist, etc., must be thoroughly evaluated to assure safe operation. Run off water from firefighting may have corrosive effects. Closed container may rupture (due to build up in pressure) when exposed to extreme heat.

**Hazardous combustion products:** Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (10.6 Hazardous decomposition products) for additional information.

#### 5.3. Advice for firefighters:

Wear self-contained breathing apparatus (SCBA) equipped with a full facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

See section 9 for additional information.

## SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures:

See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Eliminate ignition sources. Personal Protective Equipment must be worn.

#### 6.2. Environmental precautions:

Do not flush liquid into public sewer, water systems or surface waters.

#### 6.3. Methods and material for containment and cleaning up:

Contain by diking with sand, earth or other non-combustible material. Wear proper personal protective clothing and equipment. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse. CAUTION: Spilled liquid and dried film are slippery. Use care to avoid falls.

#### 6.4. References to other sections:

See Section 8 for recommendations on the use of personal protection and Section 13 for waste disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling:

As with any chemical product, use good laboratory/workplace procedures. Do not cut, puncture, or weld on or near the container. Do not get in eyes, on skin or clothing. Do not breathe dust, vapor, aerosol, mist or gas. Do not ingest, taste, or swallow. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Wash contaminated clothing before reuse. Provide eyewash fountains and safety showers in the work area.

### 7.2. Conditions for safe storage, including any incompatibilities:

Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning. Empty container contains residual product which may exhibit hazards of product. Store product where temperatures are below 122°F (50°C).

### 7.3. Specific end use(s):

No Additional Information

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters:

#### Occupational exposure limits (OEL):

| <u>Chemical Name</u>             | <u>EU OELV</u> | <u>EU IOELV</u>    | <u>ACGIH - TWA/Ceiling</u> | <u>ACGIH - STEL</u> |
|----------------------------------|----------------|--------------------|----------------------------|---------------------|
| ATBN Polymer                     | N/E            | N/E                | N/E                        | N/E                 |
| 2-Piperazin-1-ylethylamine (AEP) | N/E            | N/E                | N/E                        | N/E                 |
| <u>Chemical Name</u>             | <u>UK WEL</u>  | <u>Ireland OEL</u> |                            |                     |
| ATBN Polymer                     | N/E            | N/E                |                            |                     |
| 2-Piperazin-1-ylethylamine (AEP) | N/E            | N/E                |                            |                     |

N/E=Not established (no exposure limits established for the listed substances for listed country/region/organization).

#### Derived No Effect Levels (DNELs):

##### 2-Piperazin-1-ylethylamine (AEP)

| <u>Population</u>  | <u>Route</u> | <u>Acute (local)</u> | <u>Acute (systemic)</u> | <u>Long Term (local)</u> | <u>Long Term (systemic)</u> |
|--------------------|--------------|----------------------|-------------------------|--------------------------|-----------------------------|
| Workers            | Inhalation   | 80 mg/m3             | 10,6 mg/m3              | 15 µg/m3                 | 10,6 mg/m3                  |
| Workers            | Dermal       | N/E                  | N/E                     | N/E                      | 3,33 mg/kg bw/day           |
| General population | Dermal       | N/E                  | N/E                     | N/E                      | N/E                         |

#### Predicted No Effect Concentration (PNECs):

##### 2-Piperazin-1-ylethylamine (AEP)

| <u>Compartment</u>    | <u>PNEC</u>                      |
|-----------------------|----------------------------------|
| Freshwater            | 0,058 mg/L                       |
| Freshwater sediment   | 215 mg/kg dw                     |
| Marine water          | 0.0058 mg/L                      |
| Marine water sediment | 21,5 mg/kg dw                    |
| Soil                  | 1 mg/kg dw                       |
| STP                   | 250 mg/L                         |
| Oral                  | No potential for bioaccumulation |

N/E=Not established; N/A=Not applicable (not required); bw=body weight; dw=dry weight; ww=wet weight.

### 8.2. Exposure controls:

**Appropriate engineering controls:** Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS.

#### Individual protection measures, such as personal protective equipment:

**Eye/face protection:** Wear safety glasses with side shields (or goggles) and a face shield.

**Hand protection:** Avoid skin contact when mixing or handling the material by wearing impervious and chemical resistant

gloves. In case of prolonged immersion or frequently repeated contact, gloves with breakthrough times greater than 480 minutes (protection class 6) are recommended. For brief contact or splash applications, gloves with breakthrough times of 60 minutes or greater are recommended (protection class 3 or greater). Suggested materials for protective gloves: Butyl rubber, Nitrile rubber, Neoprene. The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374. Suitability and durability of a glove is dependent on usage (e.g. frequency and duration of contact, other chemicals which may be handled, chemical resistance of glove material and dexterity). Always seek advice of the glove supplier as to the most suitable glove material.

**Skin and body protection:** Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment. Wear an approved respirator (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable exposure limit(s) of any chemical substance listed in this SDS.

**Further information:** Eyewash fountains and safety showers are recommended in the work area.

**Environmental exposure controls:** See Sections 6 and 12.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties:

|                                      |                          |   |                           |
|--------------------------------------|--------------------------|---|---------------------------|
| <b>Form:</b>                         | Viscous liquid           | <b>pH:</b>                                      | Not Available             |
| <b>Appearance:</b>                   | Caramel                  | <b>Relative density:</b>                        | 0.98                      |
| <b>Odour:</b>                        | Slight amine             | <b>Partition coefficient (n-octanol/water):</b> | Not Available             |
| <b>Odour threshold:</b>              | Not Available            | <b>% Volatile by weight:</b>                    | 7 %                       |
| <b>Solubility in water:</b>          | Negligible               | <b>VOC:</b>                                     | Not Available             |
| <b>Evaporation rate:</b>             | Not Available            | <b>Boiling point °C:</b>                        | Not Available             |
| <b>Vapour pressure:</b>              | Not Available            | <b>Boiling point °F:</b>                        | Not Available             |
| <b>Vapour density:</b>               | Not Available            | <b>Flash point:</b>                             | 150 °C (302 °F) Estimated |
| <b>Viscosity:</b>                    | 500,000 cP @ 80°F (27°C) | <b>Autoignition temperature:</b>                | Not Available             |
| <b>Melting point/Freezing point:</b> | Not Available            | <b>Flammability (solid, gas):</b>               | Not Applicable (liquid)   |
| <b>Oxidising properties:</b>         | Not oxidizing            | <b>Flammability or explosive limits:</b>        | LFL/LEL: Not Available    |
| <b>Explosive properties:</b>         | Not explosive            |   | UFL/UEL: Not Available    |
| <b>Decomposition temperature:</b>    | Not Available            | <b>Surface tension:</b>                         |                           |

### 9.2. Other information:

Amounts specified are typical and do not represent a specification.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity:

None known.

### 10.2. Chemical stability:

This product is stable.

### 10.3. Possibility of hazardous reactions:

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid:

Excessive heat and ignition sources.

### 10.5. Incompatible materials:

Avoid contact with strong oxidizing agents and reducing agents. Depending on the amount and specific materials involved,

contact can result in intense heat, boiling, flame development, explosion or toxic gas generation.

#### 10.6. Hazardous decomposition products:

Carbon monoxide, carbon dioxide, and oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects:

#### Information on likely routes of exposure:

**General:** Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure. Little, if any, vapor can be produced from these polymers at room temperature. Health effects are particularly evident when product is heated.

**Eyes:** Causes serious eye damage.

**Skin:** Causes skin burns. May cause allergic skin reaction.

**Inhalation:** Exposure to vapors or mists may cause severe irritation and burns of the nose, throat and respiratory tract. May cause respiratory difficulties, central nervous system symptoms, and irritation to the eyes, nose, and throat.

**Ingestion:** Ingestion may cause severe irritation and burns of the mouth, throat and digestive tract.

**Acute toxicity information:** Not classified (based on available data, the classification criteria are not met). No toxicity studies have been conducted on this product. ATEmix (oral): >5000 mg/kg. ATEmix (dermal): >5000 mg/kg. ATEmix (inhal.): >5 mg/L, 4 hours (aerosol).

| <u>Chemical Name</u>             | <u>Inhalation LC50</u>                  | <u>Species</u> | <u>Oral LD50</u> | <u>Species</u>  | <u>Dermal LD50</u> | <u>Species</u> |
|----------------------------------|---|----------------|------------------|-----------------|--------------------|----------------|
| ATBN Polymer                     | N/E                                     | N/E            | >15.4 g/kg       | Rat/ adult      | >3 g/kg            | Rabbit/ adult  |
| 2-Piperazin-1-ylethylamine (AEP) | 8 hours, saturated vapor-no mortalities | Rat/ adult     | 2097 mg/kg       | Rat/ adult male | 866 mg/kg          | Rabbit/ adult  |

**Skin corrosion/irritation:** Causes severe skin burns - Category 1B.

| <u>Chemical Name</u>             | <u>Skin irritation</u> | <u>Species</u> |
|----------------------------------|------------------------|----------------|
| ATBN Polymer                     | Moderate irritant      | Rabbit/ adult  |
| 2-Piperazin-1-ylethylamine (AEP) | Corrosive              | Rabbit/ adult  |

**Serious eye damage/irritation:** Causes serious eye damage - Category 1.

| <u>Chemical Name</u>             | <u>Eye irritation</u> | <u>Species</u> |
|----------------------------------|-----------------------|----------------|
| ATBN Polymer                     | Slight irritant       | Rabbit/ adult  |
| 2-Piperazin-1-ylethylamine (AEP) | Severe irritant       | Rabbit/ adult  |

**Respiratory or skin sensitization:** Skin sensitization - Category 1. SIMILAR PRODUCT (1300X16): This product is classified as a strong sensitizer to guinea pig skin (OECD Guideline 406).

| <u>Chemical Name</u>             | <u>Skin sensitisation</u> | <u>Species</u>    |
|----------------------------------|---------------------------|-------------------|
| ATBN Polymer                     | Strong sensitizer         | Guinea Pig/ adult |
| 2-Piperazin-1-ylethylamine (AEP) | Sensitizer                | Guinea Pig/ adult |

**Carcinogenicity:** Not classified (no relevant information found).

**Germ cell mutagenicity:** Not classified (no relevant information found). 2-PIPERAZIN-1-YLETHYLAMINE: No mutagenic activity was observed in the Ames test, mouse lymphoma (in-vitro) or in-vivo micronucleus test (mice) assays. Positive mutagenic effects have been observed in Sister Chromatid exchange in-vitro testing.

**Reproductive toxicity:** Suspected of damaging fertility or the unborn child - Category 2. 2-PIPERAZIN-1-YLETHYLAMINE: Animal studies indicated a NOAEL (no-observed-adverse-effect-level) for maternal toxicity of 75 mg/kg/day and for fetal toxicity of 75 mg/kg/day (rabbits).

**Specific target organ toxicity (STOT) - single exposure:** Not classified (based on available data, the classification criteria are not met).

**Specific target organ toxicity (STOT) - repeated exposure:** May cause damage to organs through prolonged or repeated exposure - Category 2. 2-PIPERAZIN-1-YLETHYLAMINE: Repeated and prolonged exposure may result in adverse respiratory effects.

**Aspiration hazard:** Not classified (based on available data, the classification criteria are not met).

**Other toxicity information:** No additional information available.

## SECTION 12: Ecological information

### 12.1. Toxicity:

No ecological testing has been conducted on this product. ATBN POLYMER: Note: These results are typical for this family of polymers.

| <u>Chemical Name</u>             | <u>Species</u> | <u>Acute</u>                             | <u>Acute</u>             | <u>Chronic</u> |
|----------------------------------|----------------|--|--------------------------|----------------|
| ATBN Polymer                     | Fish           | N/E                                      | N/E                      | N/E            |
| ATBN Polymer                     | Invertebrates  | EC50 >1000 mg/L (48 hours)<br>(OECD 202) | N/E                      | N/E            |
| ATBN Polymer                     | Algae          | EC50 >1000 mg/L (72 hours)<br>(OECD 201) | N/E                      | N/E            |
| 2-Piperazin-1-ylethylamine (AEP) | Fish           | LC50 2190 mg/L (96 hours)                | LC50 >100 mg/L(96 hours) | N/E            |
| 2-Piperazin-1-ylethylamine (AEP) | Invertebrates  | EC50 58 mg/L (48 hours)                  | N/E                      | N/E            |
| 2-Piperazin-1-ylethylamine (AEP) | Algae          | EC50 >1000 mg/L (72 hours)               | N/E                      | N/E            |

### 12.2. Persistence and degradability:

| <u>Chemical Name</u>             | <u>Biodegradation</u>                 |
|----------------------------------|---------------------------------------|
| ATBN Polymer                     | Not readily biodegradable             |
| 2-Piperazin-1-ylethylamine (AEP) | Not readily biodegradable (OECD 301F) |

### 12.3. Bioaccumulative potential:

| <u>Chemical Name</u>             | <u>Bioconcentration Factor (BCF)</u> | <u>Log Kow</u> |
|----------------------------------|--------------------------------------|----------------|
| ATBN Polymer                     | N/E                                  | N/E            |
| 2-Piperazin-1-ylethylamine (AEP) | N/E                                  | -1.48          |

### 12.4. Mobility in soil:

| <u>Chemical Name</u>             | <u>Mobility in soil (Koc/Kow)</u> |
|----------------------------------|-----------------------------------|
| ATBN Polymer                     | N/E                               |
| 2-Piperazin-1-ylethylamine (AEP) | 37,000 (estimated)                |

### 12.5. Results of PBT and vPvB assessment:

Not Available

### 12.6. Other adverse effects:

No additional information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods:

Dispose of unused contents (incineration) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate.

See Section 8 for recommendations on the use of personal protective equipment.

## SECTION 14: Transport information

The information below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions.

### 14.1. UN number: UN2735

### 14.2. UN proper shipping name:

Amines, liquid, corrosive, n.o.s. (contains N-Aminoethylpiperazine)

### 14.3. Transport hazard class(es):

**U.S. DOT hazard class: 8**

**Canada TDG hazard class: 8**

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Europe ADR/RID hazard class: 8  
IMDG Code (ocean) hazard class: 8  
ICAO/IATA (air) hazard class: 8

A "N/A" listing for the hazard class indicates the product is not regulated for transport by that regulation.

**14.4. Packing group: III**

**14.5. Environmental hazards:**

Marine pollutant: Not Applicable

Hazardous substance (USA): Not Applicable

**14.6. Special precautions for user:**

Not Applicable

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code:**

| <u>Chemical Name</u>             | <u>Category</u> |
|----------------------------------|-----------------|
| 2-Piperazin-1-ylethylamine (AEP) | Category Z      |

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Europe REACH (EC) 1907/2006:** This product is considered a polymer under Regulation (EC) 1907/2006 and is exempt from the requirement for registration. Applicable monomers/other reactants are registered, exempt or otherwise compliant. REACH is only relevant to substances either manufactured or imported into the EU. Huntsman Corporation has met its obligations under the REACH regulation. REACH information regarding this product is provided for informational purposes only. Each Legal Entity may have differing REACH obligations, depending on their place in the supply chain. For material manufactured outside of the EU, the importer of record must understand and meet their specific obligations under the regulation.

**EU Authorizations and/or restrictions on use:** Not Applicable

**Other EU information:** No Additional Information

**National regulations:** No Additional Information

**Chemical inventories:**

| <u>Regulation</u>   | <u>Status</u> |
|---|---------------|
| Australian Inventory of Chemical Substances (AICS):                 | Y             |
| Canadian Domestic Substances List (DSL):                            | Y             |
| Canadian Non-Domestic Substances List (NDSL):                       | N             |
| China Inventory of Existing Chemical Substances (IECSC):            | Y             |
| European EC Inventory (EINECS, ELINCS, NLP):                        | Y             |
| Japan Existing and New Chemical Substances (ENCS):                  | Y             |
| Japan Industrial Safety and Health Law (ISHL):                      | N             |
| Korean Existing and Evaluated Chemical Substances (KECL):           | Y             |
| New Zealand Inventory of Chemicals (NZIoC):                         | Y             |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS): | N             |
| Taiwan Inventory of Existing Chemicals:                             | Y             |
| U.S. Toxic Substances Control Act (TSCA) (Active):                  | Y             |

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory (or is not on the ACTIVE inventory for U.S. TSCA); 2) no information is available; or 3) the component has not been reviewed. A "Y" for New Zealand may mean that a qualified group standard may exist for the components in this product.

**15.2. Chemical safety assessment:**

Not Applicable

**SECTION 16: Other information**

**Hazard (H) Statements in the Composition section (Section 3):**

|      |                             |
|------|-----------------------------|
| H302 | Harmful if swallowed.       |
| H311 | Toxic in contact with skin. |



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|      |   |
|------|---|
| H314 | Causes severe skin burns and eye damage.                        |
| H315 | Causes skin irritation.   |
| H317 | May cause an allergic skin reaction.                            |
| H361 | Suspected of damaging fertility or the unborn child.            |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects.              |

**Reason for revision:** Changes in Section(s): 1

**Evaluation method for classification of mixtures:** Calculation method

**Legend:**

\* : Trademark owned by Huntsman Corporation.

ACGIH: American Conference of Governmental Industrial Hygienists

EU OELV: European Union Occupational Exposure Limit Value

EU IOELV: European Union Indicative Occupational Exposure Limit Value

N/A: Not Applicable

N/E: None Established

STEL: Short Term Exposure Limit

TWA: Time Weighted Average (exposure for 8-hour workday)

**Users Responsibility/Disclaimer of Liability:**

The information set forth herein is based on our current knowledge, and is intended to describe the product solely with respect to health, safety and the environment. As such, it must not be interpreted as a guarantee of any specific property of the product. As a result, the customer shall be solely responsible for deciding whether said information is suitable and beneficial.

Safety Data Sheet Preparer:

Product Compliance Department