

HUNTSMAN

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Safety Data Sheet (SDS)
International (GHS)

Revision date: 2020-08-03

SECTION 1: Identification**Product identifiers:**

Product trade name: NYCHEM* 2570X59
Company product number: GRK2570X59
Other means of identification: Not Available

Recommended use of the chemical and restrictions on use:

Uses: Latex emulsion for coatings.
Restrictions on use: None identified

Details of the supplier:

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

Emergency telephone number:

ChemTel (24 hours): 1-800-255-3924 (USA); +1-813-248-0585 (outside USA);
 1-300-954-583 (Australia); 000-800-100-4086 (India).

SECTION 2: Hazard(s) identification**Classification of the substance or mixture:**

Skin Irritation, category 3, H316

Label elements:**Hazard pictogram(s):** Not Applicable**Signal word:**

Warning

Hazard statements:

H316 Causes mild skin irritation.

Precautionary statements:

P332+P313 If skin irritation occurs: Get medical advice/attention.

Supplemental information: No Additional Information

Classification and hazards statements are listed according to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Regulations in individual countries/regions may determine which classifications and hazard statements are applicable based on adopted hazard classes and categories. Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Annex III. Regulations in individual countries/regions may determine which statements are required on the product label. See product label for specifics.

Other hazards: No Additional Information

See Section 11 for toxicological information.

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

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Weight%</u>
0069227-09-4	Alkylbenzene sulfonate	0.5-<1.5
0000100-42-5	Styrene	0.1-<1.0
25103-58-6	tert-Dodecyl mercaptan	0.1-<1.0

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Weight%</u>
0068610-51-5	Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	0.1-<1.0

Notes: ALKYL BENZENE SULFONATE (Sodium dodecylbenzenesulfonate): <2.5%.

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

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. If eye irritation persists: Get medical advice/attention.

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. If skin irritation occurs: Get medical advice/attention.

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

Most important symptoms and effects, both acute and delayed: Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated contact. Persons with sensitive airways (e.g., asthmatics) may react to vapors. See section 11 for additional information.

Indication of any immediate medical attention and special treatment needed, if necessary: Treat symptomatically.

SECTION 5: Fire-fighting measures

Extinguishing media:

Suitable: Being an aqueous system, product is not a fire hazard, as supplied. After water is evaporated, dry solids could burn. Water spray, ABC dry chemical and protein type air foams are effective. Carbon dioxide may be ineffective on larger fires due to a lack of cooling capacity, which may result in reignition.

Unsuitable: None known.

Special hazards arising From the chemical:

Unusual fire/explosion hazards: None known for the product as delivered (water solution).

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

Special protective equipment and precautions for fire-fighters: 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

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. Personal Protective Equipment must be worn.

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

Methods and materials for containment and cleaning up: Contain spill. Wear proper personal protective clothing and equipment. Recover as much as possible for reuse. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and laundry before reuse. Wash the spill area with soap and water. CAUTION: Spilled liquid and dried film are slippery. Use care to avoid falls.

SECTION 7: Handling and storage

Precautions for safe handling: As with any chemical product, use good laboratory/workplace procedures. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Provide eyewash fountains and safety showers in the work area. Minimize contact with air to reduce contamination with mold, fungus, or other organisms which could cause decomposition or spoilage.

Conditions for safe storage, including any incompatibilities: Product quality degrades after freeze-thaw cycle. Recommend transportation and storage above 60°F (16°C). If product is stored, unopened at 60-90°F (16-32°C), then optimal performance has been reported up to six months from ship date. Store this material away from incompatible substances (see section 10). Do not allow product to freeze. 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.

SECTION 8: Exposure controls / personal protection

Control parameters:

Occupational exposure limits (OEL):

<u>Chemical Name</u>	<u>ACGIH - TWA/Ceiling</u>	<u>ACGIH - STEL</u>		
Alkylbenzene sulfonate	N/E	N/E		
Styrene	10 ppm TWA	20 ppm STEL		
tert-Dodecyl mercaptan	0.1 ppm TWA (dermal sensitizer)	N/E		
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	N/E	N/E		
<u>Chemical Name</u>	<u>Australia</u>	<u>New Zealand</u>	<u>Korea</u>	<u>Indonesia</u>
Alkylbenzene sulfonate	N/E	N/E	N/E	N/E
Styrene	50 ppm TWA, 100 ppm STEL	20 ppm TWA, 40 ppm STEL	20 ppm TWA (Vinyl benzene; Phenylethylene), 40 ppm STEL (Vinyl benzene; Phenylethylene) (skin)	20 ppm TWA, 40 ppm STEL (skin)
tert-Dodecyl mercaptan	N/E	N/E	N/E	N/E
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	N/E	N/E	N/E	N/E
<u>Chemical Name</u>	<u>Japan ISHL</u>	<u>Japan JSOH</u>	<u>Taiwan</u>	<u>Malaysia</u>
Alkylbenzene sulfonate	N/E	N/E	N/E	N/E
Styrene	20 ppm ACL	20 ppm OEL (skin)	50 ppm TWA, 266.25 mg/m3 STEL	20 ppm TWA (skin)
tert-Dodecyl mercaptan	N/E	N/E	N/E	N/E
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	N/E	N/E	N/E	N/E
<u>Chemical Name</u>	<u>Philippines</u>	<u>Singapore</u>		
Alkylbenzene sulfonate	N/E	N/E		
Styrene	100 ppm TWA	50 ppm PEL, 100 ppm STEL		
tert-Dodecyl mercaptan	N/E	N/E		
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	N/E	N/E		

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

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: Safety glasses or goggles required.

Skin and body protection: Wear chemical resistant (impervious) gloves. Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.

Respiratory protection: 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.

SECTION 9: Physical and chemical properties

Form:	Liquid	pH:	7-8
Appearance:	Milky	Relative density:	1
Odor:	Mild/ unpleasant	Partition coefficient (n-octanol/water):	Not Available
Odor threshold:	Not Available	% Volatile by weight:	47%
Solubility in water:	Dilutable	VOC:	Not Available
Evaporation rate:	Slower than n-butyl acetate	Boiling point °C:	100 °C
Vapor pressure:	17 mmHg @ 20°C (68°F)	Boiling point °F:	212 °F
Vapor density:	Lighter than air	Flash point:	Not Applicable
Viscosity:	45-200 cps	Auto-ignition temperature:	Not Available
Melting point/Freezing point:	0°C (32°F)	Flammability (solid, gas):	Not Applicable (liquid)
Oxidizing properties:	Not oxidizing	Flammability or explosive limits:	LFL/LEL: Not Available
Explosive properties:	Not explosive		UFL/UEL: Not Available
Decomposition temperature:	Not Available		

Other information: Amounts specified are typical and do not represent a specification.

SECTION 10: Stability and reactivity

Reactivity: None known.

Chemical stability: This product is stable. Product quality degrades after freeze-thaw cycle.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Do not freeze.

Incompatible materials: Avoid contact with strong oxidizing agents.

Hazardous decomposition products: After water is evaporated, decomposition or combustion of the dry solids may generate irritating vapors, CO, CO₂, oxides of nitrogen, monomers and hydrocarbons, and oxides of sulfur.

SECTION 11: Toxicological information

Information on likely routes of exposure:

General: Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

Eyes: May cause eye irritation.

Skin: Causes mild skin irritation.

Inhalation: High airborne concentrations of vapors resulting from heating, misting or spraying may cause irritation of the respiratory tract and mucous membranes.

Ingestion: Ingestion may cause irritation.

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): >2000 mg/kg.

Chemical Name	Inhalation LC50	Species	Oral LD50	Species	Dermal LD50	Species
Alkylbenzene sulfonate	N/E	N/E	520 mg/kg	Rat/ adult	1000-1600 mg/kg	Rat/ adult
Styrene	11.8 mg/L (4 hours)	Rat/ adult	5000 mg/kg	Rat/ adult	>2000 mg/kg	Rat/ adult
tert-Dodecyl mercaptan	>12 mg/L (NOEC, 4 hours)	Rat/ adult	4380 mg/kg	Rat/ adult	>2000 mg/kg	Rabbit/ adult
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	>165 mg/L (1 hour)	Rat/ adult	>5000 mg/kg	Rat/ adult	>2000 mg/kg	Rabbit/ adult

Skin corrosion/irritation: Causes mild skin irritation - Category 3. ALKYL BENZENE SULFONATE: Skin irritation - not irritating (2.5%), moderate irritation (5%); moderate-severe irritation (47-50%).

Chemical Name	Skin irritation	Species
Alkylbenzene sulfonate	Moderate irritant	Rabbit/ adult
Styrene	Irritant	Rabbit/ adult
tert-Dodecyl mercaptan	Moderate irritant	Rabbit/ adult
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Slight irritant	Rabbit/ adult

Serious eye damage/irritation: Not classified (based on available data, the classification criteria are not met). ALKYL BENZENE SULFONATE: Eye irritation - mild irritation (1%); moderate irritation (5%); severe irritation (47-50%).

Chemical Name	Eye irritation	Species
Alkylbenzene sulfonate	Severe irritant	Rabbit/ adult
Styrene	Irritant	Rabbit/ adult
tert-Dodecyl mercaptan	Mild-moderate irritant	Rabbit/ adult
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Slight irritant	Rabbit/ adult

Respiratory or skin sensitization: Not classified (based on available data, the classification criteria are not met).

Chemical Name	Skin sensitisation	Species
Alkylbenzene sulfonate	Non-sensitizer	Similar material(s)
Styrene	Non-sensitizer	Weight of evidence
tert-Dodecyl mercaptan	Weak sensitizer	Mouse/Local lymph node assay
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Non-sensitizer	Guinea Pig/ adult

Carcinogenicity: Not classified. STYRENE: Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic. An increased incidence of lung tumors was observed in mice from a recent inhalation study - LOAEC (Lowest-Observed-Adverse-Effect-Concentration), inhalation, mouse - 0.09-0.18 mg/L. These tumours are not considered to be relevant to humans. Additional animal study data: NOAEL (no-observed-adverse-effect-level) (carcinogenicity), oral, rat: 2000 mg/kg bw/day; LOAEL (Lowest-Observed-Adverse-Effect-Level) (carcinogenicity), oral, mouse: 150 mg/kg bw/day. NOAEC (no-observed-adverse-effect-concentration)(carcinogenicity), inhalation, rat: >=4.34 mg/L (no effects observed). U.S. NTP 14th RoC - Reasonably anticipated to be a human carcinogen; IARC - upgraded from 2B to 2A in 2018, monograph publication pending.

Germ cell mutagenicity: Not classified. STYRENE: Styrene was not mutagenic in in-vitro assays such as the Ames test without metabolic activation but in the presence of metabolic systems has given both negative and positive responses. Styrene has induced chromosomal aberrations and sister chromatid exchanges in-vitro dependent on the metabolic activation system. Some cytogenetic studies on workers exposed to styrene have shown increases in chromosomal damage, although these effects do not appear to be related to styrene exposure levels and are not supported by the data observed in the animal studies.

Reproductive toxicity: Not classified. STYRENE: Reviews of the developmental and reproductive data indicate that styrene does not cause birth defects in orally-dosed rats, and inhalation-exposed laboratory animals. Other developmental effects have been reported at exposure levels that are maternally toxic. Developmental toxicity, inhalation, rats: NOAEC (no-observed-adverse-effect-concentration) = 150 ppm. PHENOL, 4-METHYL-, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE: Prenatal Developmental toxicity, oral, rabbit (OECD 414): NOAEL of 50 mg/kg bw/day (maternal toxicity); NOAEL of 15 mg/kg bw/day (developmental toxicity). Prenatal Developmental toxicity, oral, rats (OECD 414): NOAEL of 1000 mg/kg bw/day (maternal toxicity, developmental toxicity).

Specific target organ toxicity (STOT) - single exposure: Not classified. STYRENE: Acute inhalation literature data (human) - NOAEC (No-Observed-Adverse-Effect-Concentration): 7 hours exposure = 100 ppm; 1 hour exposure = 216 ppm (no effects on the Central Nervous System (CNS)) (Stewart et al., 1968); Some minor impairment observed in neurobehavioral test performance at 200 ppm for 1.5 hour (Oltromare et al., 1974).

Specific target organ toxicity (STOT) - repeated exposure: Not classified. STYRENE: Repeated dose toxicity study, oral, mouse, 2 years: NOAEL (no-observed-adverse-effect-level) = 150 mg/kg bw/day (systemic effects). Repeated dose toxicity study, inhalation,

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4 weeks, male rat: NOAEC (no-observed-adverse-effect-concentration) = 500 ppm (2.13 mg/L) (ototoxicity). Long-term inhalation literature studies (human): NOAEC (color vision effects) = 50 ppm (8-hour TWA)(Seeber et al., 2009); NOAEC (ototoxicity) = 20 ppm (Triebig et al., 2009).

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

Ecotoxicity: No ecological testing has been conducted on this product. TERTIARY DODECYL MERCAPTAN: This substance showed no toxicity to: fish, algae, bacteria, or invertebrates at the solubility limit.

<u>Chemical Name</u>	<u>Species</u>	<u>Acute</u>	<u>Acute</u>	<u>Chronic</u>
Alkylbenzene sulfonate	Fish	LC50 1.67 mg/L (96 hours)	N/E	NOEC 0.23 mg/L (72 days)
Alkylbenzene sulfonate	Invertebrates	EC50 3.6 mg/L (48 hours)	N/E	NOEC 1.5 mg/L (21 days)
Alkylbenzene sulfonate	Algae	EC50 >160 mg/L (72 hours)	N/E	N/E
Styrene	Fish	LC50 4.02 mg/L (96 hours)	LC50 10 mg/L(96 hours)	N/E
Styrene	Invertebrates	EC50 4.7 mg/L (48 hours)	LC50 9.5 mg/L(96 hours)	NOEC 1.01 mg/L (21 days)
Styrene	Algae	EC50 4.9 mg/L (72 hours)	EC50 6.3 mg/L(96 hours)	EC10 0.28 mg/L(96 hours)
Styrene	Micro-organisms	EC50 500 mg/L (30 minutes)		
tert-Dodecyl mercaptan	Fish	LL50 >100 mg/L (96 hours)	LC50 >water solubility(96 hours)	N/E
tert-Dodecyl mercaptan	Invertebrates	EC50 >0.056 mg/L (48 hours) (>water solubility)	EC50 3.9 mg/L(24 hours)	NOEC 0.0108 mg/L (21 days) (>water solubility)
tert-Dodecyl mercaptan	Algae	EL50 >100 mg/L (72 hours)	N/E	NOEC 3.2 mg/L(72 hours)
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Fish	LC50 >0.2 mg/L (96 hours) (>water solubility)	N/E	N/E
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Invertebrates	EC50 >0.2 mg/L (48 hours) (>water solubility)	N/E	N/E
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Algae	EC50 >0.2 mg/L (72 hours) (>water solubility)	N/E	N/E

Persistence and degradability: No specific information available.

<u>Chemical Name</u>	<u>Biodegradation</u>
Alkylbenzene sulfonate	N/E
Styrene	Readily biodegradable
tert-Dodecyl mercaptan	Not readily biodegradable (OECD 301D)
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Not readily biodegradable

Bioaccumulative potential: No specific information available.

<u>Chemical Name</u>	<u>Bioconcentration Factor (BCF)</u>	<u>Log Kow</u>
Alkylbenzene sulfonate	N/E	N/E
Styrene	74 (calculated)	2.96 (OECD 107)
tert-Dodecyl mercaptan	>500-<1950 (Danio rerio)	>6.2
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	N/E	7.17-8.17

Mobility in soil: No specific information available.

<u>Chemical Name</u>	<u>Mobility in soil (Koc/Kow)</u>
Alkylbenzene sulfonate	N/E
Styrene	352 (estimated)
tert-Dodecyl mercaptan	N/E
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	N/E

Other adverse effects: No additional information available.

SECTION 13: Disposal considerations

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.

UN number: N/A

UN proper shipping name:

Not regulated - See Bill of Lading for Details

Transport hazard class(es):

U.S. DOT hazard class: N/A

Canada TDG hazard class: N/A

Europe ADR/RID hazard class: N/A

IMDG Code (ocean) hazard class: N/A

ICAO/IATA (air) hazard class: N/A

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

Packing group: N/A

Environmental hazards:

Marine pollutant: Not Applicable

Hazardous substance (USA): Not Applicable

Special precautions for user: Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:

Chemical Name

Alkylbenzene sulfonate

Category

Category Y (solution)

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question:

Japan regulations:

Japan Industrial Safety and Health Law:

Chemical name

Styrene

Category

Dangerous Substance, Designated carcinogen, Notifiable substance, Harmful substance, Specified chemical substance

Japan Fire Service Law:

Chemical name

Styrene
tert-Dodecyl mercaptan

Category

Group 4 - Flammable liquids
Group 4 - Flammable liquids

Japan Poisonous and Deleterious Substances:

Chemical name

No subject chemicals

Category

Threshold

Japan Prevention of Marine Pollution and Disaster:

Chemical name

Styrene
tert-Dodecyl mercaptan

Category

Noxious Category Y, Flammable substance
Noxious Category X

Japan Chemical Substances Control Law:

Chemical name

Styrene

Category

Priority assessment chemical

Notes

Substance control number 47

Korean regulations:

Korea Industrial Safety and Health Act:

Chemical name

Styrene

Category

Organic compounds

Threshold

>=1 %

Korea Act on Registration and Evaluation of Chemical Substances (K-REACH) - Substances subject to registration:

Styrene

Korea Chemical Control Act (CCA):

Chemical name

No subject chemicals

Category

Code

Threshold

Korea Safety Control of Dangerous Substances Act (MPSS):

Chemical name

Class

Threshold

No subject chemicals

Korea Waste Control Act: Waste disposal methods must comply with local and national laws.**Chemical name****Notes**

No subject chemicals

Other 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):	Y
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.

Chemical inventory notes: New Zealand: One or more components may be covered by a group standard.

Europe REACH (EC) 1907/2006: One or more applicable components of this mixture are not registered. Please contact your sales representative for further information regarding REACH compliance. REACH is only relevant to substances either manufactured or imported into the EU. 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.

SECTION 16: Other information

Legend:

* : Trademark owned by Huntsman Corporation.

ACGIH: American Conference of Governmental Industrial Hygienists

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