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Safety Data Sheet

according to Regulation (EC) 1907/2006 (REACH)

Revision date: 2020-08-03

Supercedes: 2020-04-02

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

1.1. Product identifier:

Product trade name: NYCHEM* 2570X59
 Company product number: GRK2570X59
 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: Latex emulsion for coatings.
 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
 For further information about this SDS: Email: cts.customerservice@huntsman.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:

Allergic effects, EUH208

2.2. Label elements:

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

Hazard pictogram(s): Not Applicable
 Signal word: Not Applicable
 Hazard statements:
 EUH208 Contains tert-Dodecyl mercaptan. May produce an allergic reaction.
 Precautionary statements: Not Applicable
 Supplemental information: Safety data sheet available on request.

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:

SDS Name: NYCHEM* 2570X59

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>Weight%</u> | <u>Classification</u> | <u>H Statements</u> |
|----------------|---|----------------|---|--------------------------------------|
| 0069227-09-4 | Alkylbenzene sulfonate | 0.5-<1.5 | Acute Tox. 4 Dermal- Acute Tox. 4 Oral- Aquatic Chronic 2- Eye Dam. 1- Skin Irrit. 2 | H302-312-315-318-411 |
| 0000100-42-5 | Styrene | 0.1-<1.0 | Acute Tox. 4 Inhalation- Aquatic Chronic 3- Asp. Tox. 1- Eye Irrit. 2- Flam. Liq. 3- Repr. 2- Skin Irrit. 2- STOT RE 1- STOT SE 3 RTI | H226-304-315-319-332-335-361-372-412 |
| 25103-58-6 | tert-Dodecyl mercaptan | 0.1-<1.0 | Aquatic Chronic 4- Eye Irrit. 2- Skin Irrit. 2- Skin Sens. 1B | H315-317-319-413 |
| 0068610-51-5 | Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene | 0.1-<0.3 | Aquatic Chronic 4- Repr. 2 | H361-413 |

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>Weight%</u> | <u>REACH Registration No.</u> | <u>EC/List Number</u> |
|----------------|---|----------------|-------------------------------|-----------------------|
| 0069227-09-4 | Alkylbenzene sulfonate | 0.5-<1.5 | Not Available | 234-289-1 |
| 0000100-42-5 | Styrene | 0.1-<1.0 | 01-2119457861-32-0286 | 202-851-5 |
| 25103-58-6 | tert-Dodecyl mercaptan | 0.1-<1.0 | Not Available | 246-619-1 |
| 0068610-51-5 | Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene | 0.1-<0.3 | Not Available | 271-867-2 |

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

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

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. 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.

4.2. 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.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media:

SDS Name: NYCHEM* 2570X59

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.

5.2. Special hazards arising from the substance or mixture:

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 (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. 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 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 launder before reuse. Wash the spill area with soap and water. 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. 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.

7.2. 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.

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> |
|---|---------------------------|---|---------------------------------|---------------------|
| Alkylbenzene sulfonate | N/E | N/E | N/E | N/E |
| Styrene | N/E | N/E | 10 ppm TWA | 20 ppm STEL |
| tert-Dodecyl mercaptan | N/E | N/E | 0.1 ppm TWA (dermal sensitizer) | N/E |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene | N/E | N/E | N/E | N/E |
| <u>Chemical Name</u> | <u>UK WEL</u> | <u>Ireland OEL</u> | | |
| Alkylbenzene sulfonate | N/E | N/E | | |
| Styrene | 100 ppm TWA, 250 ppm STEL | 85 mg/m ³ TWA (as 100% pure crystalline enzyme), 40 ppm STEL | | |
| tert-Dodecyl mercaptan | N/E | 0.1 ppm TWA, 0.3 ppm STEL (Sensitizer) | | |
| 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).

Derived No Effect Levels (DNELs):

Styrene

| <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 | 306 mg/m ³ | 289 mg/m ³ | N/E | 85 mg/m ³ |
| Workers | Dermal | N/E | N/E | N/E | 406 mg/kg bw/day |
| General population | Inhalation | N/E | N/E | N/E | 10,2 mg/m ³ |
| General population | Oral | N/E | N/E | N/E | 2,1 mg/kg bw/day |
| Humans via the environment | Inhalation | N/E | N/E | N/E | 2,4 ppm |
| Humans via the environment | Oral | N/E | N/E | N/E | 2,1 mg/kg bw/day |

Predicted No Effect Concentration (PNECs):

Styrene

| <u>Compartment</u> | <u>PNEC</u> |
|-----------------------|----------------------------------|
| Freshwater | 0,028 mg/L |
| Freshwater sediment | 0,614 mg/kg dw |
| Marine water | 0.014 mg/L |
| Marine water sediment | 0,307 mg/kg dw |
| Intermittent releases | 0,04 mg/L |
| Soil | 0,2 mg/kg dw |
| STP | 5 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: Safety glasses or goggles required.

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 240 minutes (protection class 5 or greater) are recommended. For brief contact or splash applications, gloves with breakthrough times of 10 minutes or greater are recommended (protection class 1 or greater). 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: 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:

| | | | |
|--------------------------------------|-----------------------------|---|-------------------------|
| Form: | Liquid | pH: | 7-8 |
| Appearance: | Milky | Relative density: | 1 |
| Odour: | Mild/ unpleasant | Partition coefficient (n-octanol/water): | Not Available |
| Odour 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 |
| Vapour pressure: | 17 mmHg @ 20°C (68°F) | Boiling point °F: | 212 °F |
| Vapour density: | Lighter than air | Flash point: | Not Applicable |
| Viscosity: | 45-200 cps | Autoignition temperature: | Not Available |
| Melting point/Freezing point: | 0°C (32°F) | Flammability (solid, gas): | Not Applicable (liquid) |
| Oxidising properties: | Not oxidizing | Flammability or explosive limits: | LFL/LEL: Not Available |
| Explosive properties: | Not explosive | | UFL/UEL: Not Available |
| Decomposition temperature: | Not Available | | |

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. Product quality degrades after freeze-thaw cycle.

10.3. Possibility of hazardous reactions:

Hazardous polymerization will not occur.

10.4. Conditions to avoid:

Do not freeze.

10.5. Incompatible materials:

Avoid contact with strong oxidizing agents.

10.6. 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

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.

Eyes: May cause eye irritation.

Skin: Repeated or prolonged skin contact may cause allergic reactions.

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.

| <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> |
|---|--------------------------|----------------|------------------|----------------|--------------------|----------------|
| 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: Not classified (based on available data, the classification criteria are not met). ALKYL BENZENE SULFONATE: Skin irritation - not irritating (2.5%), moderate irritation (5%); moderate-severe irritation (47-50%).

| <u>Chemical Name</u> | <u>Skin irritation</u> | <u>Species</u> |
|---|------------------------|----------------|
| 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%).

| <u>Chemical Name</u> | <u>Eye irritation</u> | <u>Species</u> |
|---|------------------------|----------------|
| 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).

| <u>Chemical Name</u> | <u>Skin sensitisation</u> | <u>Species</u> |
|---|---------------------------|------------------------------|
| 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 (Oltramare 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, 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

12.1. Toxicity:

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 |

12.2. 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 |

12.3. 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 |

12.4. Mobility in soil:

SDS Name: NYCHEM* 2570X59

No specific information available.

Chemical Name

Alkylbenzene sulfonate
Styrene
tert-Dodecyl mercaptan
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene

Mobility in soil (Koc/Kow)

N/E
352 (estimated)
N/E
N/E

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: N/A

14.2. UN proper shipping name:

Not regulated - See Bill of Lading for Details

14.3. 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.

14.4. Packing group: N/A

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:

Chemical Name

Alkylbenzene sulfonate

Category

Category Y (solution)

SECTION 15: Regulatory information

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

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.

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): | 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.

15.2. Chemical safety assessment:

Not Applicable

SECTION 16: Other information

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

| | |
|------|---|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

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

Evaluation method for classification of mixtures: Bridging principle-Substantially similar mixtures, Calculation method

SDS Name: NYCHEM* 2570X59

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