## SAFETY DATA SHEET

TS381903

### **Section 1. Identification**

Product name : Top Shield Elastomeric Sealant

Black

Product code : TS381903

Other means of : Not available.

identification

Product type : Liquid.

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

Paint or paint related material.

**Manufacturer** : SRS Distribution Inc.

7440 State Highway 121 McKinney, TX 75070-2196

Emergency telephone number of the company

: (216) 566-2917

Product Information Telephone Number

: 855-569-1550

Regulatory Information Telephone Number

: (216) 566-2902

Transportation Emergency

: (800) 424-9300

**Telephone Number** 

## Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 15%

(oral), 62.5% (dermal), 15% (inhalation)

**GHS label elements** 

Hazard pictograms :





Signal word : Danger

Date of issue/Date of revision : 6/16/2023 Date of previous issue : 3/2/2023 Version : 12.02 1/15

TS381903 Top Shield Elastomeric Sealant

Black

### Section 2. Hazards identification

#### **Hazard statements**

: Causes skin and eye irritation.

Harmful if inhaled.

May cause drowsiness or dizziness.

May cause cancer.

Suspected of damaging fertility or the unborn child.

Causes damage to organs.

May cause damage to organs through prolonged or repeated exposure.

#### **Precautionary statements**

#### General

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

#### **Prevention**

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

#### Response

: IF exposed: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

#### **Storage Disposal**

: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### Supplemental label elements

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

#### Hazards not otherwise classified

: None known.

## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

#### **CAS** number/other identifiers

| Ingredient name               | % by weight | CAS number |
|-------------------------------|-------------|------------|
| Tetrachloroethylene           | ≥25 - ≤50   | 127-18-4   |
| Hydrocarbon Polymer           | ≥10 - ≤25   | -          |
| Isobutylene Polymer           | ≤10         | 9003-27-4  |
| Styrene-Hydrocarbon Copolymer | ≤10         | 9011-11-4  |
| Light Aromatic Hydrocarbons   | <1          | 64742-95-6 |
| trimethylbenzene              | ≤0.3        | 25551-13-7 |
| Light Stabilizer              | ≤0.3        | 52829-07-9 |
| 1,3,5-Trimethylbenzene        | ≤0.3        | 108-67-8   |
| 1,2,4-Trimethylbenzene        | ≤0.3        | 95-63-6    |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Date of issue/Date of revision : 6/16/2023 Date of previous issue : 3/2/2023 Version: 12.02 2/15 TS381903 Top Shield Elastomeric Sealant SHW-85-NA-GHS-US Black

## Section 3. Composition/information on ingredients

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact : Imme

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes eye irritation.

Inhalation : Harmful if inhaled. Causes damage to organs following a single exposure if inhaled.

Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: Causes damage to organs following a single exposure in contact with skin. Causes skin

irritation.

**Ingestion** : Causes damage to organs following a single exposure if swallowed. Can cause central

nervous system (CNS) depression.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight

Date of issue/Date of revision : 6/16/2023 Date of previous issue : 3/2/2023 Version : 12.02 3/15

TS381903 Top Shield Elastomeric Sealant SHW-85-NA-GHS-US

Black

### Section 4. First aid measures

increase in fetal deaths skeletal malformations

Skin contact : Adverse symptoms may include the following:

> irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

> reduced fetal weight increase in fetal deaths skeletal malformations

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

#### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing

media

**Unsuitable extinguishing** 

media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

**Hazardous thermal** decomposition products : In a fire or if heated, a pressure increase will occur and the container may burst.

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide

halogenated compounds

carbonyl halides

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

training.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Date of issue/Date of revision : 6/16/2023 Date of previous issue : 3/2/2023 Version: 12.02 4/15

TS381903 Top Shield Elastomeric Sealant

Black

#### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

## For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

#### For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

#### **Small spill**

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Date of issue/Date of revision : 6/16/2023 Date of previous issue : 3/2/2023 Version : 12.02 5/15

TS381903 Top Shield Elastomeric Sealant Black

## Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits (OSHA United States)

| Ingredient name  | CAS#   | Exposure limits  |
|--|--|--|
| Tetrachloroethylene  | 127-18-4   | ACGIH TLV (United States, 1/2022).  TWA: 25 ppm 8 hours.  TWA: 170 mg/m³ 8 hours.  STEL: 100 ppm 15 minutes.  STEL: 685 mg/m³ 15 minutes.  OSHA PEL Z2 (United States, 2/2013).  TWA: 100 ppm 8 hours.  CEIL: 200 ppm  AMP: 300 ppm 5 minutes. |
| Hydrocarbon Polymer<br>Isobutylene Polymer<br>Styrene-Hydrocarbon Copolymer<br>Light Aromatic Hydrocarbons<br>trimethylbenzene | 9003-27-4<br>9011-11-4<br>64742-95-6<br>25551-13-7 | None. None. None. None. ACGIH TLV (United States, 1/2022). [trimethyl benzene, isomers] TWA: 10 ppm 8 hours. TWA: 123 mg/m³ 8 hours.   |
| Light Stabilizer 1,3,5-Trimethylbenzene  | 52829-07-9<br>108-67-8                             | None.  ACGIH TLV (United States, 1/2022).  [trimethyl benzene, isomers]  TWA: 10 ppm 8 hours.  TWA: 123 mg/m³ 8 hours.  NIOSH REL (United States, 10/2020).  TWA: 25 ppm 10 hours.  TWA: 125 mg/m³ 10 hours.                                   |
| 1,2,4-Trimethylbenzene   | 95-63-6  | NIOSH REL (United States, 10/2020). TWA: 25 ppm 10 hours. TWA: 125 mg/m³ 10 hours. ACGIH TLV (United States, 1/2022). TWA: 10 ppm 8 hours.   |

### Occupational exposure limits (Canada)

| Ingredient name     | CAS#     | Exposure limits   |
|---------------------|----------|---|
| Tetrachloroethylene | 127-18-4 | CA Alberta Provincial (Canada, 6/2018).  15 min OEL: 678 mg/m³ 15 minutes.  15 min OEL: 100 ppm 15 minutes.  8 hrs OEL: 25 ppm 8 hours.  8 hrs OEL: 170 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 6/2022).  TWA: 25 ppm 8 hours.  STEL: 100 ppm 15 minutes.  CA Ontario Provincial (Canada, 6/2019).  TWA: 25 ppm 8 hours.  STEL: 100 ppm 15 minutes.  CA Quebec Provincial (Canada, 6/2022).  TWAEV: 25 ppm 8 hours.  STEV: 170 mg/m³ 8 hours.  STEV: 170 mg/m³ 8 hours.  STEV: 100 ppm 15 minutes.  STEV: 685 mg/m³ 15 minutes.  CA Saskatchewan Provincial (Canada, 7/2013). |

Date of issue/Date of revision : 6/16/2023 Date of previous issue : 3/2/2023 Version : 12.02 6/15

Top Shield Elastomeric Sealant Black

TS381903

## Section 8. Exposure controls/personal protection

| STEL: 100 ppm 15 minutes. |
|---------------------------|
| TWA: 25 ppm 8 hours.      |

#### Occupational exposure limits (Mexico)

|                     | CAS#     | Exposure limits  |  |
|---------------------|----------|--|--|
| Tetrachloroethylene | 127-18-4 | NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 25 ppm 8 hours. STEL: 100 ppm 15 minutes. |  |

## Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

## **Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Respiratory protection**

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

Physical state : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

Date of issue/Date of revision : 6/16/2023 Date of previous issue : 3/2/2023 Version : 12.02 7/15

TS381903 Top Shield Elastomeric Sealant

Black

## Section 9. Physical and chemical properties

**Melting point/freezing point** : Not available. **Boiling point, initial boiling** : 121°C (249.8°F)

point, and boiling range

Flash point : Closed cup: Not applicable. **Evaporation rate** : 2.59 (butyl acetate = 1)

**Flammability** : Not available. Lower and upper explosion

: Not available.

limit/flammability limit

: 2.4 kPa (18 mm Hg)

Relative vapor density 5.83 [Air = 1]

**Relative density** : 1.19

Solubility(ies)

| Media      | Result      |
|------------|-------------|
| cold water | Not soluble |

Partition coefficient: n-

octanol/water

Vapor pressure

: Not applicable.

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available.

Kinematic (40°C (104°F)): <20.5 mm<sup>2</sup>/s (<20.5 cSt) **Viscosity** 

Molecular weight Not applicable.

**Aerosol product** 

**Heat of combustion** : 2.51 kJ/g

## Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

**Chemical stability** : The product is stable.

**Possibility of hazardous** 

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

## Section 11. Toxicological information

Information on toxicological effects

**Acute toxicity** 

Date of issue/Date of revision : 6/16/2023 Date of previous issue : 3/2/2023 Version: 12.02 8/15

TS381903 Top Shield Elastomeric Sealant

Black

## Section 11. Toxicological information

| Product/ingredient name     | Result                | Species | Dose                    | Exposure |
|-----------------------------|-----------------------|---------|-------------------------|----------|
| Tetrachloroethylene         | LD50 Oral             | Rat     | 2629 mg/kg              | -        |
| Light Aromatic Hydrocarbons | LD50 Oral             | Rat     | 8400 mg/kg              | -        |
| trimethylbenzene            | LD50 Oral             | Rat     | 8970 mg/kg              | -        |
| Light Stabilizer            | LC50 Inhalation Vapor | Rat     | 500 mg/m <sup>3</sup>   | 4 hours  |
| 1,3,5-Trimethylbenzene      | LC50 Inhalation Vapor | Rat     | 24000 mg/m <sup>3</sup> | 4 hours  |
| _                           | LD50 Oral             | Rat     | 5000 mg/kg              | -        |
| 1,2,4-Trimethylbenzene      | LC50 Inhalation Vapor | Rat     | 18000 mg/m <sup>3</sup> | 4 hours  |
|                             | LD50 Oral             | Rat     | 5 g/kg                  | -        |

#### **Irritation/Corrosion**

| Product/ingredient name     | Result                   | Species   | Score | Exposure           | Observation |
|-----------------------------|--------------------------|-----------|-------|--------------------|-------------|
| Tetrachloroethylene         | Eyes - Mild irritant     | Rabbit    | -     | 162 mg             | -           |
| ,                           | Eyes - Mild irritant     | Rabbit    | -     | 24 hours 500       | -           |
|                             |                          |           |       | mg                 |             |
|                             | Skin - Mild irritant     | Rabbit    | -     | 24 hours 500       | -           |
|                             |                          |           |       | mg                 |             |
|                             | Skin - Severe irritant   | Rabbit    | -     | 24 hours 810       | -           |
|                             |                          |           |       | mg                 |             |
| Light Aromatic Hydrocarbons | Eyes - Mild irritant     | Rabbit    | -     | 24 hours 100       | -           |
| Line Headle and             | En NATI d'instrumé       | D. 1.1.14 |       | uL                 |             |
| trimethylbenzene            | Eyes - Mild irritant     | Rabbit    | -     | 24 hours 500       | -           |
|                             | Skin - Moderate irritant | Dabbit    |       | mg                 |             |
|                             | Skin - Moderate irritant | Rabbit    | -     | 24 hours 500       | -           |
| 1,3,5-Trimethylbenzene      | Eyes - Mild irritant     | Rabbit    |       | mg<br>24 hours 500 |             |
| 1,5,5-Trimetryiberizerie    | Lyes - Mild irritarit    | Nabbit    | -     | mg                 | _           |
|                             | Skin - Moderate irritant | Rabbit    | _     | 24 hours 20        | _           |
|                             | on moderate intant       | , tabbit  |       | mg                 |             |

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Classification**

| Product/ingredient name | OSHA | IARC | NTP  |
|-------------------------|------|------|--|
| Tetrachloroethylene     | -    | 2A   | Reasonably anticipated to be a human carcinogen. |

### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

Specific target organ toxicity (single exposure)

Date of issue/Date of revision: 6/16/2023Date of previous issue: 3/2/2023Version: 12.029/15

TS381903 Top Shield Elastomeric Sealant Black

## **Section 11. Toxicological information**

| Name                        | Category   | Route of exposure | Target organs                |
|-----------------------------|------------|-------------------|------------------------------|
| Tetrachloroethylene         | Category 1 | -                 | -                            |
|                             | Category 3 |                   | Narcotic effects             |
| Light Aromatic Hydrocarbons | Category 3 | -                 | Respiratory tract            |
|                             | Cotomom: 2 |                   | irritation                   |
|                             | Category 3 |                   | Narcotic effects             |
| 1,3,5-Trimethylbenzene      | Category 3 | -                 | Respiratory tract irritation |
| 1,2,4-Trimethylbenzene      | Category 3 | -                 | Respiratory tract irritation |

#### Specific target organ toxicity (repeated exposure)

| Name   | 3 3 3                    | Route of exposure | Target organs |
|--|--------------------------|-------------------|---------------|
| Tetrachloroethylene<br>Light Aromatic Hydrocarbons | Category 2<br>Category 2 | -                 | -             |

#### **Aspiration hazard**

| Name                   | Result                         |
|------------------------|--------------------------------|
| ,                      | ASPIRATION HAZARD - Category 1 |
|                        | ASPIRATION HAZARD - Category 1 |
|                        | ASPIRATION HAZARD - Category 1 |
| 1,2,4-Trimethylbenzene | ASPIRATION HAZARD - Category 1 |

Information on the likely

routes of exposure

: Not available.

#### Potential acute health effects

Eye contact

: Causes eye irritation.

Inhalation

: Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact** 

: Causes damage to organs following a single exposure in contact with skin. Causes skin

irritation.

Ingestion

: Causes damage to organs following a single exposure if swallowed. Can cause central

nervous system (CNS) depression.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** 

: Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation

: Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

Date of issue/Date of revision : 6/16/2023 Date of previous issue : 3/2/2023 Version : 12.02 10/15

TS381903 Top Shield Elastomeric Sealant Black

## Section 11. Toxicological information

Skin contact : Adverse symptoms may include the following:

> irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

effects

: Not available.

Potential delayed effects

: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**General** : May cause damage to organs through prolonged or repeated exposure.

: May cause cancer. Risk of cancer depends on duration and level of exposure. Carcinogenicity

: No known significant effects or critical hazards. Mutagenicity **Teratogenicity** : No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : Suspected of damaging fertility.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

| Route               | ATE value     |  |
|---------------------|---------------|--|
| Oral                | 4700.24 mg/kg |  |
| Inhalation (vapors) | 19.67 mg/l    |  |

## Section 12. Ecological information

#### **Toxicity**

| Product/ingredient name | Result  | Species  | Exposure             |
|-------------------------|---|--|----------------------|
| Tetrachloroethylene     | Acute EC50 3.64 mg/l  | Algae - Chlamydomonas<br>reinhardtii - Exponential growth<br>phase                         | 72 hours             |
|                         | Acute EC50 504 ppm Marine water Acute LC50 3.5 mg/l Marine water        | Algae - Skeletonema costatum<br>Crustaceans - Elminius<br>modestus - Nauplii               | 96 hours<br>48 hours |
|                         | Acute LC50 3.40071 mg/l Fresh water<br>Acute LC50 4000 μg/l Fresh water | Daphnia - Daphnia magna<br>Fish - Jordanella floridae -<br>Juvenile (Fledgling, Hatchling, | 48 hours<br>96 hours |

Date of issue/Date of revision 11/15 : 6/16/2023 Date of previous issue : 3/2/2023 Version: 12.02 TS381903

Top Shield Elastomeric Sealant Black

## **Section 12. Ecological information**

|                        |                                      | Weanling)                        |          |
|------------------------|--------------------------------------|----------------------------------|----------|
|                        | Chronic EC10 1.77 mg/l               | Algae - Chlamydomonas            | 72 hours |
|                        |                                      | reinhardtii - Exponential growth |          |
|                        |                                      | phase                            |          |
|                        | Chronic NOEC 0.4 mg/l Fresh water    | Daphnia - Daphnia magna          | 21 days  |
|                        | Chronic NOEC 500 µg/l Fresh water    | Fish - Pimephales promelas -     | 32 days  |
|                        |                                      | Larvae                           |          |
| Isobutylene Polymer    | Acute LC50 >5600000 µg/l Fresh water | Fish - Oncorhynchus mykiss       | 96 hours |
| trimethylbenzene       | Acute LC50 5600 μg/l Marine water    | Crustaceans - Palaemonetes       | 48 hours |
|                        |                                      | pugio                            |          |
| 1,3,5-Trimethylbenzene | Acute LC50 13000 μg/l Marine water   | Crustaceans - Cancer magister -  | 48 hours |
|                        |                                      | Zoea                             |          |
|                        | Acute LC50 12520 μg/l Fresh water    | Fish - Carassius auratus         | 96 hours |
|                        | Chronic NOEC 0.4 mg/l Fresh water    | Daphnia - Daphnia magna          | 21 days  |
| 1,2,4-Trimethylbenzene | Acute LC50 4910 µg/l Marine water    | Crustaceans - Elasmopus          | 48 hours |
|                        |                                      | pectenicrus - Adult              |          |
|                        | Acute LC50 7720 μg/l Fresh water     | Fish - Pimephales promelas       | 96 hours |

#### Persistence and degradability

| Product/ingredient name     | Aquatic half-life | Photolysis | Biodegradability |
|-----------------------------|-------------------|------------|------------------|
| Light Aromatic Hydrocarbons | -                 | -          | Readily          |

#### **Bioaccumulative potential**

| Product/ingredient name     | LogPow | BCF         | Potential |
|-----------------------------|--------|-------------|-----------|
| Tetrachloroethylene         | -      | 49          | low       |
| Isobutylene Polymer         | -      | 314 to 1882 | high      |
| Light Aromatic Hydrocarbons | -      | 10 to 2500  | high      |
| 1,3,5-Trimethylbenzene      | -      | 161         | low       |
| 1,2,4-Trimethylbenzene      | -      | 243         | low       |

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Date of issue/Date of revision : 6/16/2023 Date of previous issue : 3/2/2023 Version : 12.02 12/15

TS381903 Top Shield Elastomeric Sealant Black

## **Section 14. Transport information**

|                            | DOT<br>Classification          | TDG<br>Classification  | Mexico<br>Classification | IATA   | IMDG  |
|----------------------------|--------------------------------|--|--------------------------|--|---|
| UN number                  | UN1897                         | UN1897   | UN1897                   | UN1897   | UN1897  |
| UN proper shipping name    | Tetrachloroethylene<br>mixture | Tetrachloroethylene  | Tetrachloroethylene      | Tetrachloroethylene<br>mixture   | Tetrachloroethylene<br>mixture. Marine<br>pollutant<br>(Tetrachloroethylene)  |
| Transport hazard class(es) | 6.1                            | 6.1  | 6.1                      | 6.1  | 6.1   |
| Packing group              | III                            | III  | III                      | III  | III   |
| Environmental hazards      | No.                            | No.  |                          | Yes. The<br>environmentally<br>hazardous<br>substance mark<br>is not required.                           | Yes.  |
| Additional information     | ERG No.                        | Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.26-2.36 (Class 6).  ERG No. | ERG No.                  | The environmentally hazardous substance mark may appear if required by other transportation regulations. | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Emergency schedules F-A, S-A |
|                            | 160                            | 160  | 160                      |  |   |

Special precautions for user :

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according: Not available. to IMO instruments

Proper shipping name : Not available.

Date of issue/Date of revision 13/15 : 6/16/2023 Date of previous issue : 3/2/2023 Version: 12.02

TS381903 Top Shield Elastomeric Sealant Black

## Section 15. Regulatory information

#### **SARA 313**

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

#### California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

#### **International regulations**

International lists : Australia inventory (AIIC): Not determined.

> China inventory (IECSC): Not determined. Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined. Korea inventory (KECI): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

Taiwan Chemical Substances Inventory (TCSI): Not determined.

Thailand inventory: Not determined. Turkey inventory: Not determined. Vietnam inventory: Not determined.

## Section 16. Other information

**Hazardous Material Information System (U.S.A.)** 



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

#### Procedure used to derive the classification

| Classification  | Justification      |
|---|--------------------|
| ACUTE TOXICITY (inhalation) - Category 4                              | Calculation method |
| SKIN CORROSION/IRRITATION - Category 2                                | Calculation method |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B                      | Calculation method |
| CARCINOGENICITY - Category 1B   | Calculation method |
| TOXIC TO REPRODUCTION - Category 2                                    | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1         | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - | Calculation method |
| Category 3  |                    |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2       | Calculation method |

#### **History**

Date of printing : 6/16/2023 Date of issue/Date of : 6/16/2023

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Date of previous issue 3/2/2023 Version 12.02

Date of issue/Date of revision : 6/16/2023 Date of previous issue : 3/2/2023 Version: 12.02 14/15

TS381903 Top Shield Elastomeric Sealant

Black

### Section 16. Other information

#### Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

**UN = United Nations** 

▼ Indicates information that has changed from previously issued version.

#### **Notice to reader**

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

Date of issue/Date of revision : 6/16/2023 Date of previous issue : 3/2/2023 Version : 12.02 15/15