# SAFETY DATA SHEET

TS380103

### **Section 1. Identification**

Product name : TOP SHIELD Polyurethane Sealant

Black

Product code : TS380103

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

: (216) 566-2902

Telephone Number
Transportation Emergency

(---)

**Telephone Number** 

: (800) 424-9300

### 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

: SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

**RESPIRATORY SENSITIZATION - Category 1** 

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 24.8%

(oral), 24.8% (dermal), 1.8% (inhalation)

**GHS label elements** 

Hazard pictograms





Signal word : Danger

Date of issue/Date of revision : 6/15/2023 Date of previous issue : 11/27/2022 Version : 14.01 1/16

TS380103 TOP SHIELD Polyurethane Sealant

Black

### Section 2. Hazards identification

#### **Hazard statements**

- : Causes skin irritation.
  - May cause an allergic skin reaction.
  - Causes serious eye irritation.
  - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - May cause respiratory irritation.
  - May cause cancer.
  - Suspected of damaging fertility or the unborn child.

### **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. Wear respiratory protection. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

#### Response

IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash 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.

Supplemental label elements

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

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure. VAPOR AND SPRAY MIST HARMFUL. Gives off harmful vapor of solvents and isocyanates. DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS. OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES, USE ONLY WITH ADEQUATE VENTILATION, WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/PARTICULATE RESPIRATOR MAY BE EFFECTIVE. Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. have any breathing problems during use, LEAVE THE AREA and get fresh air. If problems remain or happen later, IMMEDIATELY call a doctor - If not available get emergency medical treatment. Have this label with you. Reacts with water in closed container to produce pressure which may cause container to burst.

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.

Date of issue/Date of revision : 6/15/2023 Date of previous issue : 11/27/2022 Version: 14.01 2/16

# 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
Calcium Carbonate	≥25 - ≤50	1317-65-3
Polyurethane prepolymer	≥10 - ≤25	-
Calcium Oxide	<3	1305-78-8
4, 4'-Diphenylmethane Diisocyanate	<1	101-68-8
Diphenylmethane-2,4-diisocyanate	<1	5873-54-1
p-Toluenesulfonyl Isocyanate	<1	4083-64-1
Carbon Black	≤1	1333-86-4
Diphenylmethane Diisocyanate Polymer	≤0.3	25686-28-6
Diphenylmethane Diisocyanate Polymer	≤0.3	150449-03-9
Crystalline Silica, respirable powder	≤0.3	14808-60-7
Bis(pentamethyl-4-piperidyl)sebacate	≤0.3	41556-26-7

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.

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

### Section 4. First aid measures

### Description of necessary first aid measures

**Eye contact** 

: 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.

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 the event of any complaints or symptoms, avoid further exposure.

Skin contact

: Wash with plenty of soap and 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. In the event of any complaints or symptoms, avoid further exposure. 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. 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 serious eye irritation.

Date of issue/Date of revision : 6/15/2023 Date of previous issue : 11/27/2022 Version : 14.01 3/16

TS380103 TOP SHIELD Polyurethane Sealant Black

### Section 4. First aid measures

Inhalation : May cause respiratory irritation. May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

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

pain or irritation watering redness

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

respiratory tract irritation

coughing

wheezing and breathing difficulties

asthma

reduced fetal weight 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 : Treat

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**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

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides

Date of issue/Date of revision : 6/15/2023 Date of previous issue : 11/27/2022 Version : 14.01 4/16

TS380103 TOP SHIELD Polyurethane Sealant

Black

# Section 5. Fire-fighting measures

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.

### 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). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. 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 ingest. Avoid breathing vapor or mist. 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.

Date of issue/Date of revision : 6/15/2023 Date of previous issue : 11/27/2022 Version : 14.01 5/16

TS380103 TOP SHIELD Polyurethane Sealant Black

# Section 7. Handling and storage

including any incompatibilities

Conditions for safe storage, : 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.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits (OSHA United States)

Ingredient name	CAS#	Exposure limits
Calcium Carbonate	1317-65-3	OSHA PEL (United States, 5/2018).  TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 15 mg/m³ 8 hours. Form: Total dust NIOSH REL (United States, 10/2020).  [calcium carbonate]  TWA: 5 mg/m³ 10 hours. Form: Respirable fraction  TWA: 10 mg/m³ 10 hours. Form: Total
Polyurethane prepolymer Calcium Oxide	1305-78-8	None.  ACGIH TLV (United States, 1/2022).  TWA: 2 mg/m³ 8 hours.  NIOSH REL (United States, 10/2020).  TWA: 2 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 5 mg/m³ 8 hours.
4, 4'-Diphenylmethane Diisocyanate	101-68-8	ACGIH TLV (United States, 1/2022).  TWA: 0.005 ppm 8 hours.  NIOSH REL (United States, 10/2020).  TWA: 0.05 mg/m³ 10 hours.  TWA: 0.005 ppm 10 hours.  CEIL: 0.2 mg/m³ 10 minutes.  CEIL: 0.02 ppm 10 minutes.  OSHA PEL (United States, 5/2018).  CEIL: 0.02 ppm  CEIL: 0.02 mg/m³
Diphenylmethane-2,4-diisocyanate p-Toluenesulfonyl Isocyanate Carbon Black	5873-54-1 4083-64-1 1333-86-4	None. None. ACGIH TLV (United States, 1/2022). TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2020). TWA: 3.5 mg/m³ 10 hours. TWA: 0.1 mg of PAHs/cm³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 3.5 mg/m³ 8 hours.
Diphenylmethane Diisocyanate Polymer Diphenylmethane Diisocyanate Polymer Crystalline Silica, respirable powder	25686-28-6 150449-03-9 14808-60-7	None. None. OSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form: Respirable OSHA PEL (United States, 5/2018). [Silica,

Date of issue/Date of revision : 6/15/2023 Date of previous issue : 11/27/2022 Version: 14.01 6/16

TS380103 TOP SHIELD Polyurethane Sealant Black

# Section 8. Exposure controls/personal protection

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		crystalline] TWA: 50 μg/m³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 1/2022). [Silica, crystalline] TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2020). [SILICA, CRYSTALLINE (AS RESPIRABLE DUST)] TWA: 0.05 mg/m³ 10 hours. Form: respirable dust
Bis(pentamethyl-4-piperidyl)sebacate	41556-26-7	None.

### Occupational exposure limits (Canada)

Ingredient name	CAS#	Exposure limits
Calcium oxide	1305-78-8	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 2 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 6/2022).  TWA: 2 mg/m³ 8 hours.  CA Ontario Provincial (Canada, 6/2019).  TWA: 2 mg/m³ 8 hours.  CA Quebec Provincial (Canada, 6/2022).  TWAEV: 2 mg/m³ 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 4 mg/m³ 15 minutes.  TWA: 2 mg/m³ 8 hours.
4, 4'-Diphenylmethane Diisocyanate	101-68-8	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 0.005 ppm 8 hours.  8 hrs OEL: 0.05 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 6/2022). Inhalation sensitizer.  TWA: 0.005 ppm 8 hours.  C: 0.01 ppm  CA Quebec Provincial (Canada, 6/2022).  Skin sensitizer. Inhalation sensitizer.  TWAEV: 0.005 ppm 8 hours.  TWAEV: 0.051 mg/m³ 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 0.015 ppm 15 minutes.  TWA: 0.005 ppm 8 hours.  CA Ontario Provincial (Canada, 6/2019).  [Isocyanates, organic compounds]  Ceiling Limit: 0.02 ppm  TWA: 0.005 ppm 8 hours.
Diphenylmethane-2,4-diisocyanate	5873-54-1	CA British Columbia Provincial (Canada, 6/2022). [Diisocyanates, not elsewhere specified, NOS]  TWA: 0.005 ppm 8 hours. C: 0.01 ppm  CA Ontario Provincial (Canada, 6/2019). [Isocyanates, organic compounds]

Date of issue/Date of revision : 6/15/2023 Date of previous issue : 11/27/2022 Version : 14.01 7/16

# Section 8. Exposure controls/personal protection

Cootion of Exposure controlorper		
		Ceiling Limit: 0.02 ppm TWA: 0.005 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). [Isocyanate oligomers] Skin sensitizer. Inhalation sensitizer.
p-Toluenesulfonyl Isocyanate	4083-64-1	CA Quebec Provincial (Canada, 6/2022). [Isocyanate oligomers] Skin sensitizer. Inhalation sensitizer.
Carbon black	1333-86-4	CA British Columbia Provincial (Canada, 6/2022).  TWA: 3 mg/m³ 8 hours. Form: Inhalable CA Ontario Provincial (Canada, 6/2019).  TWA: 3 mg/m³ 8 hours. Form: Inhalable particulate matter. CA Quebec Provincial (Canada, 6/2022).  TWAEV: 3 mg/m³ 8 hours. Form: inhalable dust CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 3.5 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 7 mg/m³ 15 minutes. TWA: 3.5 mg/m³ 8 hours.
Diphenylmethane Diisocyanate Polymer	25686-28-6	CA Quebec Provincial (Canada, 6/2022). [Isocyanate oligomers] Skin sensitizer. Inhalation sensitizer.
Quartz	14808-60-7	CA British Columbia Provincial (Canada, 6/2022). [Silica, Crystalline - alpha quartz and Cristobalite Respirable]  TWA: 0.025 mg/m³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 6/2022). [Silica Crystalline -Quartz]  TWAEV: 0.1 mg/m³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.025 mg/m³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). [Silica, Crystalline (Quartz/Tripoli)]  TWA: 0.1 mg/m³ 8 hours. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013).  TWA: 0.05 mg/m³ 8 hours. Form: respirable fraction

### Occupational exposure limits (Mexico)

	CAS#	Exposure limits	
Calcium Oxide	1305-78-8	NOM-010-STPS-2014 (Mexico, 4/2016).	<b></b>
4, 4'-Diphenylmethane Diisocyanate	101-68-8	TWA: 2 mg/m³ 8 hours.  NOM-010-STPS-2014 (Mexico, 4/2016).  TWA: 0.005 ppm 8 hours.	

Date of issue/Date of revision: 6/15/2023Date of previous issue: 11/27/2022Version: 14.018/16TS380103TOP SHIELD Polyurethane Sealant BlackSHW-85-NA-GHS-US

### Section 8. Exposure controls/personal protection

# Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, 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. Contaminated work clothing should not be allowed out of the workplace. 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.

**pH** : 8

Melting point/freezing point : Not available.

Boiling point, initial boiling : Not available.

point, and boiling range

Flash point : Closed cup: Not applicable.

**Evaporation rate** : Not available.

Date of issue/Date of revision : 6/15/2023 Date of previous issue : 11/27/2022 Version : 14.01 9/16

TS380103 TOP SHIELD Polyurethane Sealant

Black

# Section 9. Physical and chemical properties

**Flammability** : Not available.

Lower and upper explosion

limit/flammability limit

: Not available.

: Not available. Vapor pressure Relative vapor density : Not available.

**Relative density** 1.48

Solubility(ies)

Not available.

Partition coefficient: n-

octanol/water

: Not applicable.

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

**Decomposition temperature** : Not available.

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

**Molecular weight** Not applicable.

**Aerosol product** 

**Heat of combustion** : 10.577 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** 

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

products

# Section 11. Toxicological information

### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
4, 4'-Diphenylmethane Diisocyanate	LD50 Oral	Rat	9200 mg/kg	-
p-Toluenesulfonyl Isocyanate Carbon Black	LD50 Oral LD50 Oral		2234 mg/kg >15400 mg/kg	-

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
4, 4'-Diphenylmethane Diisocyanate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
p-Toluenesulfonyl Isocyanate	Eyes - Moderate irritant Skin - Mild irritant	Rabbit Rabbit	-	100 uL 24 hours 500 uL	-

Date of issue/Date of revision : 11/27/2022 10/16 : 6/15/2023 Date of previous issue Version: 14.01 SHW-85-NA-GHS-US

TS380103 TOP SHIELD Polyurethane Sealant

Black

# Section 11. Toxicological information

### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### **Classification**

Product/ingredient name	OSHA	IARC	NTP
4, 4'-Diphenylmethane Diisocyanate Carbon Black Crystalline Silica, respirable powder	-	3 2B 1	- - Known to be a human carcinogen.

### **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Calcium Carbonate	Category 3	-	Respiratory tract irritation
Calcium Oxide	Category 3	-	Respiratory tract irritation
4, 4'-Diphenylmethane Diisocyanate	Category 3	-	Respiratory tract irritation
Diphenylmethane-2,4-diisocyanate	Category 3	-	Respiratory tract irritation
p-Toluenesulfonyl Isocyanate	Category 3	-	Respiratory tract irritation
Diphenylmethane Diisocyanate Polymer	Category 3	-	Respiratory tract irritation
Diphenylmethane Diisocyanate Polymer	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
4, 4'-Diphenylmethane Diisocyanate	Category 2	-	-
Diphenylmethane-2,4-diisocyanate	Category 2	-	-
Diphenylmethane Diisocyanate Polymer	Category 2	-	-
Crystalline Silica, respirable powder	Category 1	inhalation	-

### **Aspiration hazard**

Not available.

Information on the likely

: Not available.

routes of exposure

### Potential acute health effects

Date of issue/Date of revision 11/16 : 6/15/2023 Date of previous issue : 11/27/2022 Version: 14.01 TS380103 TOP SHIELD Polyurethane Sealant

Black

### Section 11. Toxicological information

**Eye contact** : Causes serious eye irritation.

Inhalation : May cause respiratory irritation. May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

### 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:

respiratory tract irritation

coughing

wheezing and breathing difficulties

asthma

reduced fetal weight 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

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

**Short term exposure** 

Potential immediate : No

effects

: Not available.

Potential delayed effects

Long term exposure

Not available.Not available.

Potential immediate effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

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

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

Date of issue/Date of revision : 6/15/2023 Date of previous issue : 11/27/2022 Version : 14.01 12/16

TS380103 TOP SHIELD Polyurethane Sealant SHW-85-NA-GHS-US

Black

# **Section 11. Toxicological information**

Route	ATE value
Inhalation (dusts and mists)	6.54 mg/l

# **Section 12. Ecological information**

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Calcium Oxide		Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	46 days

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Calcium Oxide	-	2.34	low
4, 4'-Diphenylmethane Diisocyanate	-	200	low
Diphenylmethane- 2,4-diisocyanate	-	200	low
Diphenylmethane Diisocyanate Polymer	-	200	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**

TS380103

: 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 : 6/15/2023 Date of previous issue : 11/27/2022 Version : 14.01 13/16

TOP SHIELD Polyurethane Sealant Black

### **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

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.

# 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.

Date of issue/Date of revision 14/16 : 6/15/2023 Date of previous issue : 11/27/2022 Version: 14.01

TS380103 TOP SHIELD Polyurethane Sealant

Black

# Section 15. Regulatory information

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
SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method

#### **History**

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**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** 

Date of issue/Date of revision : 6/15/2023 Date of previous issue : 11/27/2022 Version: 14.01 15/16

### Section 16. Other information

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 : 6/15/2023 Date of previous issue : 11/27/2022 Version : 14.01 16/16