

SAFETY DATA SHEET



Date Issued : 11/29/2018

SDS No : 1033

Date Revised : 10/23/2019

Revision No : 1

BD105

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BD105**PRODUCT DESCRIPTION:** Black Diamond Duraseal Formula 12 oz.**DISTRIBUTOR**

TSI Products, Inc.
809 110th Street
Arlington, TX 76011

Emergency Contact: Ginger Stewart**Customer Service:** 817-649-2626 ext.154**24 HR. EMERGENCY TELEPHONE NUMBERS**

CHEMTREC: 800-255-3924

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS**Health:**

Skin Irritation, Category 2

Eye Irritation, Category 2B

Environmental:

Acute Hazards to the Aquatic Environment, Category 3

Physical:

Compressed Gases

GHS LABEL

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Exclamation
mark

Gas cylinder

SIGNAL WORD: WARNING**HAZARD STATEMENTS**

H315 + H320: Causes skin and eye irritation.

H402: Harmful to aquatic life.

H280: Contains gas under pressure; may explode if heated.

PRECAUTIONARY STATEMENTS**Prevention:**

P264: Wash skin thoroughly after handling.

3120APTT: Wear protective gloves.

P273: Avoid release to the environment.

Response:

P302+P352: IF ON SKIN: Wash with plenty of water.

P321: Specific treatment (see first aid measures on this label).

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

P362+P364: Take off contaminated clothing and wash it before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

Storage:

P410+P403: Protect from sunlight. Store in a well-ventilated place.

HAZARDS NOT OTHERWISE CLASSIFIED:

Liquid can cause burns similar to frostbite.

May displace oxygen and cause rapid suffocation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Linear alkylate additive	*	Proprietary
Dibasic acid ester	*	Proprietary
Lubricant	*	Proprietary
UV Dye	*	Proprietary
1,1,1,2-tetrafluoroethane	92	811-97-2

COMMENTS: *Ingredients and composition are withheld as trade secret in accordance with 29CFR1910.1200(i).

4. FIRST AID MEASURES

EYES: 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.

SKIN: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

INGESTION: If swallowed, DO NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth with plenty of water. If victim is fully conscious, give a small glass of water. NEVER give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get immediate medical attention if symptoms persist.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

SKIN: Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.

NOTES TO PHYSICIAN: Treat symptomatically.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry Chemical, CO₂, Foam, Fog or Water Spray.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon.

FIRE FIGHTING PROCEDURES: Standard procedure for chemical fires. Clear fire area of all non-emergency personnel. Keep adjacent containers cool by spraying with water. Will float and can be reignited on surface water. The vapor is heavier than air, spreads along the ground and distant ignition is possible.

FIRE FIGHTING EQUIPMENT: Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. NFPA 1851; ISO 11999; EN469).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Contain and soak up spill with absorbent material. Place residues in a suitable, sealed and labeled container.

LARGE SPILL: LARGE SPILLS: Shut off leak if safe to do so. Contain spill with inert, absorbent material. Reclam into recovery or salvage drums or vacuum truck for proper disposal.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Prevent contamination of water. Prevent material from entering drains or watercourses using sand, earth or other appropriate barriers. Do not flush into surface water or sanitary sewer system.

GENERAL PROCEDURES: Do not touch or walk through spilled material. Remove all possible sources of ignition. Ensure adequate ventilation. Use appropriate personal protective equipment.

SPECIAL PROTECTIVE EQUIPMENT: Use protective equipment recommended in Section 8.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling.

HANDLING: Avoid contact with skin, eyes and clothing. Do not empty into drains.

STORAGE: Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Keep container tightly closed in a dry and well-ventilated place. Keep away from incompatible materials. Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m ³
1,1,1,2-tetrafluoroethane	Supplier OEL	TWA	1000	

ENGINEERING CONTROLS: Provide adequate ventilation. Eye washes and showers for emergency use.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical splash goggles. Wear a full face shield where splashing is likely.

SKIN: Wear chemically resistant gloves.

RESPIRATORY: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator.

PROTECTIVE CLOTHING: Wear protective clothing appropriate to the risk of exposure.

WORK HYGIENIC PRACTICES: Wash hands, forearms and face before eating, drinking, smoking and using the restroom. Launder contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid.

COLOR: Neon yellow

PHYSICAL STATE COMMENTS: Compressed liquefied gas

pH: Not Available.

FLASH POINT AND METHOD: 161°C

FLAMMABLE LIMITS: Not Available.

AUTOIGNITION TEMPERATURE: Not Available.

VAPOR PRESSURE: Not Available.

VAPOR DENSITY: Not Available.

BOILING POINT: Not Available.

FREEZING POINT: Not Available.

POUR POINT: -46°C

SOLUBILITY IN WATER: Partially soluble

DENSITY: 1.01 g/cm³ at 20°C

VISCOSITY #1: 48 cSt at 40°C Kinematic

10. STABILITY AND REACTIVITY

REACTIVITY: Stable under normal conditions of use.

HAZARDOUS POLYMERIZATION: Will not occur.

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat, sparks or open flames.

HAZARDOUS DECOMPOSITION PRODUCTS: None Expected.

INCOMPATIBLE MATERIALS: Strong oxidizers, strong acids, strong bases. Reducing agents.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD₅₀: > 1000 mg/kg - rabbit, ATE_{mix}

Notes: Not classified for acute toxicity based on available data.

ORAL LD₅₀: > 5000 mg/kg - rat, ATE_{mix}

Notes: Not classified for acute toxicity based on available data.

INHALATION LC₅₀: Not Available.

NOTES: Information given is based on the toxicology of the components in the mixture.

SKIN CORROSION/IRRITATION: Causes skin irritation. Liquid can cause burns similar to frostbite.

SERIOUS EYE DAMAGE/IRRITATION: Irritating to the eyes.

RESPIRATORY OR SKIN SENSITISATION: None Expected.

GERM CELL MUTAGENICITY: Not Available.

CARCINOGENICITY

NOTES: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP, ACGIH or OSHA.

REPRODUCTIVE TOXICITY: Not Available.

STOT-SINGLE EXPOSURE: Not Available.

STOT-REPEATED EXPOSURE: Not Available.

ASPIRATION HAZARD: Not classified as an aspiration hazard.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Ecotoxicological data have not been determined specifically for this product. The information below is given based on knowledge of the components.

BIOACCUMULATION/ACCUMULATION: Not Available.

DISTRIBUTION: Not Available.

AQUATIC TOXICITY (ACUTE): Harmful to aquatic life.

Dibasic Acid Ester:

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 72 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae: EC50 - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h (OECD Test Guideline 201)

CHEMICAL FATE INFORMATION: Not Available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of contents/container to a licensed contractor or facility in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: 1,1,1,2-Tetrafluoroethane

PRIMARY HAZARD CLASS/DIVISION: 2.2
UN/NA NUMBER: UN3159
PACKING GROUP: N/A
PLACARDS: Compressed gas
SPECIAL SHIPPING NOTES: Special provisions: T50

AIR (ICAO/IATA)

SHIPPING NAME: 1,1,1,2-Tetrafluoroethane
UN/NA NUMBER: UN3159
PRIMARY HAZARD CLASS/DIVISION: 2.2
PACKING GROUP: N/A
PLACARDS: Compressed gas

VESSEL (IMO/IMDG)

SHIPPING NAME: 1,1,1,2-Tetrafluoroethane
UN/NA NUMBER: UN3159
PRIMARY HAZARD CLASS/DIVISION: 2.2
PACKING GROUP: N/A
PLACARDS: Compressed gas

15. REGULATORY INFORMATION**UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

311/312 HAZARD CATEGORIES: Acute Health
311/312 PHYSICAL HAZARDS: Gases Under Pressure
313 REPORTABLE INGREDIENTS: None.

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Contains no CERCLA regulated ingredients at detectable levels.
CERCLA RQ: NA = Not Applicable

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
1,1,1,2-tetrafluoroethane	811-97-2

TSCA STATUS: All components listed or exempt.

CALIFORNIA PROPOSITION 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

REASON FOR ISSUE: Original Version

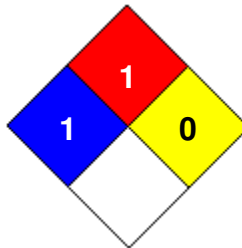
APPROVED BY: Ginger Stewart

PREPARED BY: Shrieve Chemical Products HSE Department **Date Revised:** 10/23/2019

REVISION SUMMARY: This SDS replaces the 11/29/2018 SDS. Revised: **Section 12: AQUATIC TOXICITY (ACUTE).**

HMIS RATING

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input type="checkbox"/>	

NFPA CODES

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