

SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Union standards.

TECHNIGLASS

1. PRODUCT IDENTIFICATION

<u>TRADE NAME (AS LABELED):</u>	MO-RE Spray 'n Fuse Mold Release Spray
<u>CHEMICAL NAME/CLASS:</u>	Boron Nitride Release Agent/Dry Lubricant
<u>GENERAL USE:</u>	Release Agent/Dry Lubricant
<u>MANUFACTURER'S NAME:</u>	Techniglass Corporation 80 Thompson St. N. Tonawanda, NY 14120 (716) 564-8888
<u>BUSINESS PHONE:</u>	February 16, 2018
<u>DATE ISSUED:</u>	September 21, 2017
<u>PREVIOUS REVISION DATE:</u>	

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Product Description: This product is intended as a mold release spray. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 122°F/50°C. **Health Hazards:** Do not eat, drink, or smoke when using this product. Wear protective gloves and wash thoroughly after handling. Wear protective gloves/clothing/eye protection/face. Use only in a well-ventilated area. **IF INHALED:** Move individual to fresh air. **IF IN EYES:** Rise cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If eye irritation persists, seek medical attention. **IF SWALLOWED:** Call a POISON CENTER or doctor/physician if you feel unwell. **Flammability Hazards:** This product is Non-Flammable. **Reactivity Hazards:** None known. **Environmental Hazards:** Could be toxic to aquatic life. **Emergency Considerations:** Emergency responders must wear the proper personal protective equipment (and have appropriate fire-suppression equipment) suitable for the situation to which they are responding.

HAZARD RATINGS:

Hazardous Materials Information System (NPCA-HMIS) Ratings:

Health: -2; Flammability: -1; Reactivity: -1; Personal Protection rating to be supplied by user depending on conditions.

PICTOGRAM:



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SIGNS AND SYMPTOMS OF EXCESSIVE EXPOSURE:

Eye Contact: Physical irritation

Inhalation: May cause respiratory irritation, drowsiness, or dizziness.

HAZARD CLASSIFICATION:

Gases under pressure – Liquefied Gas Serious

Eye Damage/Irritation: Category 2A

Specific Target Organ Toxicity (Single Exposure): Category 3

LABEL ELEMENTS:

Signal Word

Warning

HAZARD STATEMENTS:

Contains gas under pressure; may explode if heated.

Causes serious eye irritation.

May cause drowsiness or dizziness.

PREVENTION STATEMENTS:

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing, eye protection, face protection.

IF INHALED: Move individual to fresh air and keep at rest in a position comfortable for breathing.

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: Seek medical attention.

Call a POISON CENTER or doctor/physician if you feel unwell.

Pressurized container: Do not pierce or burn, even after use.

Protect from sunlight: Do not expose to temperatures exceeding 122°F/50°C.

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

Other Hazards: Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Prolonged skin contact may cause dermatitis or frostbite. May cause cardiac arrhythmia.

3. COMPOSITION on INGREDIENTS

INGREDIENT NAME	CAS #	PERCENT (%)
Pentane	109-66-0	20 - 32
Ethylene	74-85-1	15 - 25
Isopropyl Alcohol	67-63-0	20 - 30
Boron Nitride	10043-11-5	8 - 12
Proprietary Trade Secret		10 - 25

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4. FIRST AID MEASURES

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and SDS to health professional with contaminated individual.

EYE CONTACT: Flush with a gentle stream of warm water for at least 20 minutes, lifting eyelids until no evidence of the chemical remains. Seek medical attention. Remove contact lenses, if present and easy to do. Continue to rinse.

SKIN CONTACT: Wash affected area with plenty of water for at least 20 minutes. Wash contaminated clothing before use. Seek medical attention if necessary.

INGESTION: DO NOT induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician.

INHALATION: Move individual to fresh air, lie down. Seek medical attention if necessary.

5. FIREFIGHTING MEASURES

FLAMMABILITY: This product is not flammable Test Method: Ignition distance test and Enclosed space ignition test

SUITABLE EXTINGUISHING MEDIA: Alcohol resistant foam, Dry chemical, Carbon Dioxide (CO₂)

UNSUITABLE EXTINGUISHING MEDIA: No applicable data available.

SPECIAL HAZARDS: Fire or intense heat may cause violent rupture of aerosols. The product is not flammable. Vapors may form flammable mixture with air. Hazardous combustion of products: Hydrogen Fluoride, Fluorinated hydrocarbons, Carbonyl fluoride, Carbon oxides, Hydrogen chloride.

FIREFIGHTING PROTECTIVE EQUIPMENT: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Wear neoprene gloves during cleanup work after a fire. Exposure to decomposition products may be a hazard to health.

FURTHER INFORMATION: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Evacuate personnel to safe areas. Cool containers/tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL): Evacuate personnel to safe area. Use personal protective equipment. Ventilate area, especially low or enclosed spaces where heavy vapors might collect. In case of insufficient ventilation, wear suitable respiratory equipment.

ENVIRONMENTAL PRECAUTIONS: If aerosols rupture, prevent material from entering sewers, waterways, or low areas. Should not be released into the environment. Do not allow contact with soil, surface, or ground water.

SPILL CLEANUP: Contain spillage and collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/ national regulations

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7. HANDLING AND STORAGE

HANDLING: Use a well-ventilated area to avoid breathing vapors. Vapors are heavier than air and accumulate in low areas. Use only with adequate ventilation. Use appropriate respiratory protection when ventilation is inadequate. When using do not eat, drink, or smoke. Avoid contact with skin, eyes, or clothing. Wash thoroughly after handling.

STORAGE: Store in a clean, dry area. Do not store near sources of heat, in direct sunlight or where temperatures exceed 120°F / 49°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Components</u>	<u>OSHA (PEL)</u>	<u>ACGIH (TLV)</u>
Pentane	1000 ppm, TWA	600 ppm, TWA
Ethylene	Not Established	Not Applicable
Isopropyl Alcohol	400 ppm, STEL	400 ppm, 8 Hr. TWA

RESPIRATORY PROTECTION: Avoid breathing vapors, mists, or spray. Use with sufficient ventilation especially for enclosed or low places. Vapors are heavier than air and can cause suffocation by reducing oxygen. In poorly ventilated areas, use an approved self-contained breathing apparatus.

EYE PROTECTION: Avoid eye contact. Use chemical goggles or safety glasses.

SKIN PROTECTION: Avoid contact with skin. Use gloves impervious to this material when prolonged or frequently repeated contact occurs.

PREVENTION OF SWALLOWING: Do not eat or drink when using this product. Wash exposed areas thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White, partial suspension	VAPOR DENSITY (Air=1): Not Applicable
FORM: Liquid	pH: Neutral
COLOR: White	% VOLITILE by VOLUME: 98-99
ODOR: Alcohol	VAPOR PRESSURE: 21 psi @ 68°F/20°C
BOILING POINT: Not Applicable	WATER SOLUBILITY (%): Not Applicable
DENSITY: 1.23 g/cc @ 77°F/25°C	EVAPORATION RATE (CC14=1): N/A

10. STABILITY AND REACTIVITY

STABILITY: Stable at normal temperatures and storage conditions.

CHEMICAL STABILITY: No decomposition if stored and applied as directed.

POSSIBILITY OF HAZARDOUS REACTIONS: No applicable data available.

MATERIAL AND CONDITIONS TO AVOID: Open flames and high temperatures. Alkali or alkaline earth metals, powder metals, powdered metal salts, nitrogen oxides, strong acids, bases, and oxidizing agents.

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DECOMPOSITION: This product can be decomposed by high temperatures (flame, glowing metal surfaces, etc.) forming Fluorinated hydrocarbons, Hydrogen fluoride, Carbon dioxide, Carbon monoxide, Hydrogen chloride gas, Carbonyl fluoride.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

Oral: LD50: 7902 mg/kg in rats

Dermal: LD50: >5,000 mg/kg in rabbits

Inhalation: 4 hour LC50: 95.4 mg/l in rats

Target Organs: Central Nervous System, narcosis

Skin Irritation: Mild skin irritation in rabbits

Eye Irritation: Mild skin irritation in rabbits

Repeated Dose Toxicity: Inhalations, 90 days in rats: No toxicologically significant effects were found.

Oral, 90 days in rats: No toxicologically significant effects were found.

Mutagenicity: Did not cause genetic damage in animals.

Test on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive Toxicity: Testing showed no reproductive toxicity.

Teratogenicity: Testing showed no developmental toxicity.

12. ECOLOGICAL INFORMATION

96 hour LC50 in bluegill sunfish: 74 mg/l

48 hour LC50 in Daphnia magna: 79 mg/l

96 hour EC50 in green algae: 798 mg/l

Biodegradability: Not readily biodegradable. Method: OECD Test Guideline 301D

Results of PBT and vPvD Assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ecotoxicity: This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13. DISPOSAL CONCERNS

PREPARING WASTES FOR DISPOSAL: Comply with Federal, State/Provincial, and Local regulations. Remove to a permitted waste disposal facility. The product should not be allowed to enter drains, water courses, or the soil.

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14. TRANSPORT CONSIDERATIONS

US DOT

Proper Shipping Name: Consumer Commodity
Hazard Class: ORM-D
Identification Number: None
Packaging Group: None

IATA

Proper Shipping Name: Aerosols, Non-Flammable
Hazard Class: 2.2
Identification Number: UN1950
Packaging Group: None

IMDG

Proper Shipping Name: Aerosols, Non-Flammable
Hazard Class: 2.2
Identification Number: UN1950
Packaging Group: None

15. REGULATORY INFORMATION

UNITED STATES FEDERAL REGULATIONS:

U.S. TSCA INVENTORY STATUS: All of the components of this product are listed in the TSCA Inventory.

Processors and users of this substance must also comply with the applicable general SNUR requirements set forth in 40 CFR 721 subpart A, including export notification requirement if applicable (40 CFR 721.20), and the applicable record keeping requirements set forth at 40 CFR 721.125.

16. OTHER INFORMATION

FOR INDUSTRIAL USE ONLY

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ABBREVIATIONS:

CAS: Chemical Abstracts Service
HMIS: Hazardous Material Information System
OSHA: Occupational Safety and Health Administration
TSCA: Toxic Substances Control Act

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All chemicals may pose unknown hazards and should be used with cautions. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Techniglass Corporation assumes no responsibility for the completeness or accuracy of the information contained herein. Users should consider this data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and protection of the environment.