



# SAFETY DATA SHEET

## SECTION 1. Identification of the hazardous chemical substance or mixture and of the supplier or manufacturer

**Name of the hazardous chemical substance or mixture** Boron Nitride Mold Release - 283 g

### Other means of identification

**Product Code** Item# 1751433

### Recommended use of the hazardous chemical substance or mixture, and restrictions of use

**Recommended use** Mold release

**Recommended restrictions** None known.

### Suppliers details

**Company name** CRC Industrias de Mexico S. de R. L. de C.V.  
**Address** Cerrada Canadá 201-H  
Fraccionamiento Industrial Martel  
Santa Catarina, NL 66367  
Mexico  
**Telephone** General Information 81-2139-0572  
**Website** www.crc-mexico.com  
**E-mail** SoporteTecnico@crcind.com

**Emergency phone number** 24-Hour Emergency 800-681-9531

## SECTION 2. Hazard identification

### Classification of the substance or mixture

<b>Physical hazards</b>	Aerosols	Category 1
<b>Health hazards</b>	Acute toxicity, oral	Category 5
	Serious eye damage/eye irritation	Category 2
<b>Environmental hazards</b>	Not classified.	

### Elements of labeling, including precautionary statements and warning pictograms



**Signal word** Danger

### Hazard statement

H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H303	May be harmful if swallowed.
H319	Causes serious eye irritation.

### Precautionary statement

#### Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P264	Wash thoroughly after handling.
P280	Wear eye protection/face protection.

#### Response

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.

P312	Call a POISON CENTER/doctor if you feel unwell.
<b>Storage</b>	
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
<b>Disposal</b>	Dispose of waste and residues in accordance with local authority requirements.
<b>Other hazards which do not result in classification</b>	None known.
<b>Supplemental information</b>	None.

### SECTION 3. Composition/information on ingredients

#### Mixtures

Chemical identity	Common name(s), synonym(s)	CAS number and other unique identifiers	Concentration
dimethyl ether		115-10-6	35 - 45
1,1-difluoroethane	HFC-152a	75-37-6	35 - 45
acetone		67-64-1	5 - 10
isopropyl alcohol		67-63-0	3 - 7
boron nitride		10043-11-5	0.1 - 1

**Composition comments** Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### SECTION 4. First-aid measures

#### Description of necessary first-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash with soap and plenty of water for 15 minutes. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Rinse mouth. Drink plenty of water. Get medical advice/attention if you feel unwell.
<b>Most important symptoms/effects, acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

### SECTION 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Alcohol resistant foam. Dry powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
<b>Special protective actions for firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.
<b>General fire hazards</b>	Extremely flammable aerosol.

## SECTION 6. Measures that must be taken in the event of accidental spillage or an accidental leak

### Personal precautionary measures, protective equipment and emergency procedure

<b>For non-emergency personnel</b>	Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
<b>For emergency responders</b>	Keep unnecessary personnel away. Emergency personnel need self-contained breathing equipment. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

**Methods and materials for containing and cleaning up spills or releases** Stop leak if you can do so without risk. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

## SECTION 7. Handling and storage

**Precautions for safe handling** Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Use only outdoors or in a well-ventilated area. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not re-use empty containers. Do not taste or swallow. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities** Level 1 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## SECTION 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

##### Mexico. Occupational Exposure Limit Values

Components	Type	Value
acetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

##### US. ACGIH Threshold Limit Values

Components	Type	Value
acetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

### Biological limit values

##### Mexico. Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
acetone (CAS 67-64-1)	50 mg/l	Acetona	Urine	*

**Mexico. Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetona	Urine	*

\* - For sampling details, please see the source document.

**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*
isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

\* - For sampling details, please see the source document.

**Control banding approach** Not available.

**Appropriate engineering controls** Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

**Hazardous Chemicals (NOM-028-STPS-2012, System for administration of workplace safety in the process and critical equipment for handling hazardous chemicals, Appendix A, Table A.I, 9/6/2012)**

isopropyl alcohol (CAS 67-63-0) 4600 KG

**Individual protection measures, such as personal protective equipment (PPE)**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection** Wear protective gloves such as: Nitrile.

**Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**SECTION 9. Physical and chemical properties**

**Appearance**

**Physical state** Liquid.

**Form** Aerosol.

**Color** White.

**Odor** Characteristic.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** -138.5 °F (-94.7 °C) estimated

**Initial boiling point and boiling range** 181 °F (82.8 °C)

**Flash point** 53.0 °F (11.7 °C)

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

**Upper/lower flammability or explosive limits**

**Explosive limit - lower (%)** 2.5 % estimated

**Explosive limit - upper (%)** 12.8 % estimated

**Vapor pressure** 3609.2 hPa estimated

**Vapor density** Not available.

**Relative density** 0.92

**Solubility(ies)**

<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	750.2 °F (399 °C) estimated
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Molecular weight</b>	Not available.
<b>Other information</b>	
<b>Percent volatile</b>	62 % estimated

**SECTION 10. Stability and reactivity**

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions that must be avoided</b>	Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

**SECTION 11. Toxicological information**

**Information about likely routes of entry**

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	Based on available data, the classification criteria are not met.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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

**Numerical measures of toxicity (such as acute toxicity estimates)**

**Acute toxicity** May be harmful if swallowed.

Product	Species	Test Results
Boron Nitride Mold Release - 283 g		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	10226 mg/kg
<b>Inhalation</b>		
<i>Dust and mist.</i>		
ATE	Rat	102.5 mg/l, 4 hours
<b>Oral</b>		
LD50	Rat	4252.75 mg/kg
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Carcinogenicity</b>	Not classifiable as to carcinogenicity to humans.	

<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Other information</b>	Not available.

## SECTION 12. Ecotoxicological information

<b>Toxicity</b>	The 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.	
<b>Persistence and degradability</b>	No data is available on the degradability of any ingredients in the mixture.	
<b>Bioaccumulative potential</b>	No data available.	
<b>Partition coefficient n-octanol / water (log Kow)</b>		
1,1-difluoroethane		0.75
acetone		-0.24
dimethyl ether		0.1
isopropyl alcohol		0.05
<b>Mobility in soil</b>	No data available.	
<b>Other adverse effects</b>	Not established.	

## SECTION 13. Disposal considerations

### Disposal methods

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## SECTION 14. Transport information

### SCT

<b>UN number</b>	UN1950
<b>Proper shipping name</b>	AEROSOLS, Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not assigned.
<b>Environmental hazards</b>	No.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Bulk special provisions</b>	63,190,277,327,344

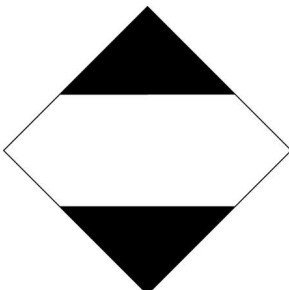
### DOT

<b>UN number</b>	UN1950
<b>Proper shipping name</b>	Aerosols, flammable, Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	2.1
<b>Packing group</b>	Not assigned.
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	N82
<b>Packaging exceptions</b>	306
<b>Packaging non bulk</b>	None

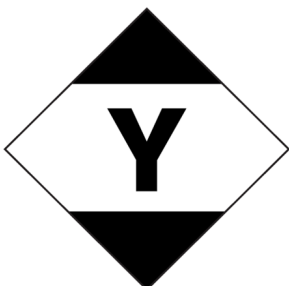
<b>Packaging bulk</b>	None
<b>IATA</b>	
<b>UN number</b>	UN1950
<b>Proper shipping name</b>	Aerosols, flammable, Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not assigned.
<b>ERG Code</b>	10P
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed with restrictions.
<b>Cargo aircraft only</b>	Allowed with restrictions.

<b>IMDG</b>	
<b>UN number</b>	UN1950
<b>Proper shipping name</b>	AEROSOLS, Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not assigned.
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No.
<b>EmS</b>	F-D, S-U
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not established.

DOT; IMDG; SCT



IATA



## SECTION 15. Regulatory information

**Safety, health and environmental regulations specific for the hazard chemical substance or mixture in question** This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2015).

### Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)

1,1-difluoroethane (CAS 75-37-6)	100 KG
	2500 KG

## International regulations

### Montreal Protocol

Not applicable.

### Stockholm Convention

Not applicable.

### Rotterdam Convention

Not applicable.

### Kyoto protocol

1,1-difluoroethane (CAS 75-37-6) Listed.

### Basel Convention

Not applicable.

## International inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## SECTION 16. Other included information relevant to the preparation and updating of safety data sheets

Issue date	04-11-2019
Revision date	11-01-2022
Version #	02

### List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists.  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.  
ANTT: National Agency of Land Transport.  
CAS: Chemical Abstract Service.  
DOT: Department of Transportation.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IARC: International Agency for Research on Cancer.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IMDG: International Maritime Dangerous Goods.  
MARPOL: International Convention for the Prevention of Pollution from Ships.  
NFPA: National Fire Protection Association.  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
SCT: Secretariat of Communications and Transportation (NOM-002-SCT/2011).  
STEL: Short term exposure limit.  
TWA: Time Weighted Average.

**References**

NMX-R-019-SCFI-2011 - Harmonized system of classification and communication of dangers of chemical products  
NOM-010-STPS-2014 (second revision) – Occupational Exposure Limits – becomes effective on April 28, 2016  
NOM-018-STPS-2015 - Harmonized system for the identification and communication of hazards and risks for hazardous chemicals in the workplace  
NOM-026-STPS-2008 - Colors and signals of safety and hygiene, and risk identification through fluids in pipes  
NOM-028-STPS-2012 – Work-Safety Management System for Processes and Critical Equipment Handling Hazardous Chemical Substances  
NOM-047-SSA1-2011 – Workplace Biological Exposure Indices (BEIs) to Chemical Substances  
Workplace Threshold Quantities of Hazardous Chemicals

**Disclaimer**

This information is considered accurate but is not exhaustive and shall only be used as a guideline based on current knowledge of the chemical substance or mixture. Safety precautions suitable for the product must be applied.

CRC Industrias de Mexico S. de R. L. de C.V. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

**Revision information**

This document has undergone significant changes and should be reviewed in its entirety.