



Nut-Buster

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Nut-Buster**

Product Code(s) : NB9 (P/N 475267)

Recommended use of the chemical and restrictions on use

: Professional Use Only; Lubricant

Chemical family : Mixture

Name, address, and telephone number of the supplier:

Parker Hannifin Corporation - Sporlan Division

206 Lange Drive
Washington, MO, U.S.A.
63090

www.sporlan.com

Supplier's Telephone # : (636-239-1111)

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

Name, address, and telephone number of the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). WHMIS classification:

Class A (Pressurized containers)

Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material) .

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification:

Gas Under Pressure Liquefied gas

Carcinogenicity- Category 2 :

Label elements

The following label information is applicable only to the United States according to OSHA Regulations (29 CFR 1910.1200) (Hazcom 2012):

Signal Word

DANGER!

Hazard statement(s)

Contains gas under pressure; may explode if heated.
Suspected of causing cancer.

Precautionary statement(s)



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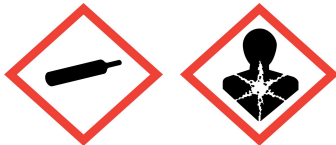
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Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical attention/advice.

Protect from sunlight and store in well-ventilated place.
 Store locked up.

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



The following label information is applicable only to Canada according to the Canadian Controlled Products Regulations (CPR/WHMIS):

DANGER!

Contents under pressure. Containers may explode if heated. May be harmful if inhaled or swallowed. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. May cause respiratory irritation. May be an aspiration hazard. Can enter the lungs and cause damage. Prolonged or repeated skin contact may cause drying and irritation.

Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Do not breathe fumes, mists or vapours. Avoid contact with incompatible materials. Keep out of the reach of children.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes, rinse with water for 15 minutes.
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. When symptoms persist or in all cases of doubt seek medical advice.



Other hazards

Other hazards which do not result in classification May cause skin and eye irritation. May cause respiratory tract irritation. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS #	Concentration
1,1-Difluoroethane	75-37-6	60.0 - 100.0
Methyl isobutyl ketone	108-10-1	1.0 - 5.0
oleic acid	112-80-1	1.0 - 5.0

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion

: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.



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- Inhalation* : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. Keep warm and in a quiet place. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention.
- Skin contact* : Remove contaminated clothing. Wash contaminated area with soap and lukewarm (not hot), gently running water. If irritation persists, seek prompt medical attention. Wash contaminated clothing before re-use.
- Eye contact* : Immediately flush eyes with running water for at least 15 minutes. If irritation persists, seek prompt medical attention.

Most important symptoms and effects, both acute and delayed

- : Contact with liquid or refrigerated gas can cause cold burns and frostbite. May cause eye irritation. May cause skin irritation. May cause respiratory irritation. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Suspected of causing cancer.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Dry chemical, foam, carbon dioxide and water fog.

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Extremely flammable aerosol Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. .

Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable aerosol.

Explosion Data: Sensitivity to Mechanical Impact / Static Discharge:

- : May be sensitive to static discharge. Aerosols are sensitive to mechanical impact. Contents under pressure.

Hazardous combustion products

- : Carbon oxides; Hydrogen fluoride; Carbonyl fluoride; Other unidentified organic compounds; Fluorinated products..

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Avoid spreading burning liquid with water spray used for cooling purposes. Shield personnel to protect from venting or rupturing containers. Prevent fire extinguishing water from contaminating surface water or the ground water system. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Keep all other personnel upwind and away from the spill/release. Individuals involved in the cleanup must wear appropriate personal protective equipment. Refer to protective measures listed in sections 7 and 8.



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Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

Methods and material for containment and cleaning up

- : Ventilate area of release. Remove all sources of ignition. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
 US CERCLA Reportable quantity (RQ): Not applicable.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with eyes, skin and clothing. Use only non-sparking tools with this material. Keep away from heat, sparks, and open flames. Avoid contact with strong oxidizing agents. Always replace cap after use. Wash thoroughly after handling. Do not puncture or incinerate containers. Keep out of the reach of children. No smoking in the area.

Conditions for safe storage

- : Store in a cool, dry, well ventilated area, away from heat and ignition sources. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. No smoking in the area. Inspect periodically for damage or leaks.

Incompatible materials

- : Bases; Reducing agents; Reactive metals; Strong oxidizers (e.g. Chlorine, Peroxides, etc.).

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
1,1-Difluoroethane	1000 ppm (AIHA WEEL)	N/Av	N/Av	N/Av
Methyl isobutyl ketone	20 ppm	75 ppm	100 ppm	N/Av
oleic acid	N/Av	N/Av	N/Av	N/Av

Exposure controls

Ventilation and engineering measures

- : Do not use in closed or confined space. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection

- : Use NIOSH/MSHA approved full-face respirator with an organic vapour cartridge if the recommended exposure limit is exceeded. Advice should be sought from respiratory protection specialists.

Skin protection

- : Solvent-resistant gloves. Advice should be sought from glove suppliers.

Eye / face protection

- : Chemical splash goggles are recommended. Do not wear contact lenses.

Other protective equipment

- : An eyewash station and safety shower should be made available in the immediate working area. Depending on conditions of use, an impervious apron should be worn. Remove and wash contaminated clothing before re-use.

General hygiene considerations



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: Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear to yellow liquid, contained in a pressurized aerosol can.

Odour : Characteristic odour.

Odour threshold : N/Av

pH : N/Av

Melting/Freezing point : N/Av

Initial boiling point and boiling range

: N/Av

Flash point : N/Av

Flashpoint (Method) : N/Av

Evaporation rate (BuAe = 1) : N/Av

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

: N/Av

Upper flammable limit (% by vol.)

: N/Av

Oxidizing properties : None known.

Explosive properties : Not explosive

Vapour pressure : N/Av

Vapour density : > 1

Relative density / Specific gravity

: 0.91 (concentrate)

Solubility in water : Negligible

Other solubility(ies) : None known.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: N/Av

Auto-ignition temperature : N/Av

Decomposition temperature : Not available.

Viscosity : N/Av

Volatiles (% by weight) : Not available.

Volatile organic Compounds (VOC's)

: N/Av

Absolute pressure of container

: N/Av

Flame projection length : >75

Other physical/chemical comments

: Heat of combustion: 10.080 kJ/g

SECTION 10. STABILITY AND REACTIVITY

Reactivity : The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability : Stable under the recommended storage and handling conditions prescribed. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time.



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Possibility of hazardous reactions

: Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.

Conditions to avoid

: Keep out of direct sunlight. Keep away from excessive heat, open flames, sparks and other possible sources of ignition.

Incompatible materials

: Bases; Reducing agents; Reactive metals; Strong oxidizers (e.g. Chlorine, Peroxides, etc.).

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption

: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: Inhalation of vapours or mists may cause irritation to the nose, throat and upper respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. In extremely high concentrations, product may act as an asphyxiant and cause increased breathing and pulse rates, fatigue and unconsciousness.

Sign and symptoms ingestion

: Swallowing large amounts may be harmful. May cause irritation of mouth, throat, and stomach. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Product may present an aspiration hazard, if ingested in large amounts, causing life-threatening lung injury.

Sign and symptoms skin

: May cause mild skin irritation. If product is sprayed directly on skin, symptoms of frostbite may be experienced including numbness, prickling and itching.

Sign and symptoms eyes

: May cause mild eye irritation. If product is sprayed directly into the eyes, could cause freezing of the eye.

Potential Chronic Health Effects

: Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin.

Mutagenicity

: Not expected to be mutagenic in humans.

Carcinogenicity

: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Classification: Carcinogenicity- Category 2

Suspected of causing cancer.

Reproductive effects & Teratogenicity

: Not expected to cause reproductive effects.

Senitization to material

: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects

: The substance or mixture is not classified as specific target organ toxicant, single exposure.

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.



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Irritancy : Mild eye irritant. Mild skin irritant..

Medical conditions aggravated by overexposure

: Pre-existing eye, skin, respiratory, liver, kidney and central nervous system disorders.

Synergistic materials

: N/Av

Toxicological data

: See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u>	<u>LD₅₀</u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
1,1-Difluoroethane	64,000 ppm	N/Av (gas)	N/Av (gas)
Methyl isobutyl ketone	2000 - 4000 ppm	2080 mg/kg	>3000mg/kg
oleic acid	N/Av	> 19,200 mg/kg	>3000mg/kg

Other important toxicological hazards

: CNS depression may result from extreme exposures.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
1,1-Difluoroethane	75-37-6	N/Av	N/Av	
Methyl isobutyl ketone	108-10-1	780mg/L (Fathead minnow)	N/Av	None.
oleic acid	112-80-1	205mg/L (Fathead minnow)	N/Av	None.

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Daphnia</u>		
		<u>EC50 / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
1,1-Difluoroethane	75-37-6	N/Av	N/Av	
Methyl isobutyl ketone	108-10-1	>200mg/L (Water flea)	30mg/L (Water flea)	None.
oleic acid	112-80-1	N/Av	N/Av	None.

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
1,1-Difluoroethane	75-37-6	N/Av	N/Av	
Methyl isobutyl ketone	108-10-1	30mg/L (Green algae)	N/Av	None.
oleic acid	112-80-1	N/Av	N/Av	None.



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Persistence and degradability

: No data is available on the product itself.

Bioaccumulation potential

: No data is available on the product itself.

Mobility in soil

: No data is available on the product itself.

Other Adverse Environmental effects

: No data is available on the product itself. This product contains 1,1-difluoroethane. 1,1-difluoroethane may contribute to the greenhouse effect when discharged into the atmosphere in large quantities. 1,1-difluoroethane has a 'Global Warming Potential (GWP) of 120 over a 100 year time horizon.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: Handle waste according to recommendations in Section 7. Do not puncture or incinerate containers.




Methods of Disposal

: Improper disposal can cause damage to the environment. Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

RCRA

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN1950	Aerosols	2.1	none	
TDG Additional information	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass. Under the TDGR, refer to Section 1.17 for additional exemption information, if shipping under this exemption.				
49CFR/DOT	UN1950	Aerosols	2.1	none	
49CFR/DOT Additional information	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass. For limited quantity shipping information, refer to 49 CFR Section 173.306.				
ICAO/IATA	UN1950	Aerosols, flammable	2.1	none	
ICAO/IATA Additional information	Refer to the appropriate Packing Instruction, prior to shipping this material. Refer to the Manufacturer for shipping information.				

Special precautions for user

: Transportation of Dangerous Goods Regulations (TDGR) Shipping Information: As supplied, this product is not regulated for transport by ground within Canada.

Environmental hazards

: See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
1,1-Difluoroethane	75-37-6	Yes	N/Ap	N/Av	No	N/Ap
Methyl isobutyl ketone	108-10-1	Yes	5000 lb/ 2270 kg	N/Av	Yes	0.1%
oleic acid	112-80-1	Yes	N/Ap	N/Av	No	N/Ap

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Pressurized gas hazard; Acute Health Hazard. Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: Methyl isobutyl ketone.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
1,1-Difluoroethane	75-37-6	No	N/Ap	No	Yes	No	Yes	No	No
Methyl isobutyl ketone	108-10-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
oleic acid	112-80-1	No	N/Ap	No	No	No	No	Yes	Yes

Canadian Information:

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

International Information:

Components listed below are present on the following International Inventory list:



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Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
1,1-Difluoroethane	75-37-6	200-866-1	Present	Present	(2)-86	KE-10545	Present	HSR000994
Methyl isobutyl ketone	108-10-1	203-550-1	Present	Present	(2)-542	KE-24725	Present	HSR001194
oleic acid	112-80-1	204-007-1	Present	Present	(2)-975; (2)-609	KE-26450	Present	HSR003153

SECTION 16. OTHER INFORMATION

- Legend**
- : ACGIH: American Conference of Governmental Industrial Hygienists
 - CA: California
 - CAS: Chemical Abstract Services
 - CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 - CFR: Code of Federal Regulations
 - CNS: Central Nervous System
 - DOT: Department of Transportation
 - HMIS: Hazardous Materials Identification System
 - HSDB: Hazardous Substances Data Bank
 - IARC: International Agency for Research on Cancer
 - Inh: Inhalation
 - LC: Lethal Concentration
 - LD: Lethal Dose
 - MA: Massachusetts
 - MN: Minnesota
 - MSHA: Mine Safety and Health Administration
 - N/Ap: Not Applicable
 - N/Av: Not Available
 - NFPA: National Fire Protection Association
 - NIOSH: National Institute of Occupational Safety and Health
 - NJ: New Jersey
 - NTP: National Toxicology Program
 - OSHA: Occupational Safety and Health Administration
 - PA: Pennsylvania
 - PEL: Permissible exposure limit
 - RCRA: Resource Conservation and Recovery Act
 - RI: Rhode Island
 - RTECS: Registry of Toxic Effects of Chemical Substances
 - SARA: Superfund Amendments and Reauthorization Act
 - STEL: Short Term Exposure Limit
 - TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 - TLV: Threshold Limit Values
 - TWA: Time Weighted Average
 - WHMIS: Workplace Hazardous Materials Identification System
- References**
- : Canadian Centre for Occupational Health and Safety, CCIInfoWeb Databases, 2015 (Chempendium, RTECs, HSDB, INCHEM).
Material Safety Data Sheet from manufacturer
OECD- The Global Portal to Information on Chemical Substances - eChemPortal, 2015
33259
11
European Chemicals Agency, Classification Legislation, 2015
- Preparation Date (mm/dd/yyyy)**
- : 06/06/2011
- Reviewed Date SDS (dd/mm/yyyy)**
- : 17/04/2015
- Revision No.**
- : 2
- Revision Information**
- : All (format change)



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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

HMIS Rating



: * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: *1 *Flammability:* 3 *Reactivity:* 1

NFPA Rating

0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

: *Health:* 1 *Flammability:* 3 *Instability:* 0 *Special Hazards:* None.

<p><u>Prepared for:</u> Parker Hannifin Corporation - Sporlan Division 206 Lange Drive Washington, MO 63090 U.S.A. Telephone: (636) 239-1111 Direct all enquiries to: Parker Hannifin Corp. - Sporlan Division.</p>	
<p><u>Prepared by:</u> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p>	

DISCLAIMER

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