

Blast-A-Coil

SDS Revision Date (mm/dd/yyyy): 05/14/2015

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SAFETY DATA SHEET

I	
Blast-A-Coil	
BAC20 (P/N 475246)	
l and restrictions on use	
Professional Use Only; Lubricant	
Mixture.	
number	Name, address, and telephone number of the manufacturer:
Sporlan Division	Refer to supplier
: (636)-239-1111	
Chemtrec 1-800-424-9300 (Within C (Outside U.S.).	continental U.S.); Chemtrec 703-527-3887
	Blast-A-Coil BAC20 (P/N 475246) and restrictions on use Professional Use Only; Lubricant Mixture. number Forlan Division

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); Class D2B (Materials Causing Other Toxic Effects, Toxic Material).

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification : Gas Under Pressure -Liquefied gas Skin Irritation - Category 2 Eye Damage/Irritation - Category 2A Carcinogenicity - Category 1 Specific Target Organ Toxicity, Single Exposure - Category 3 (cns)

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. Causes skin irritation. Causes serious eye irritation. May cause cancer. May cause drowsiness or dizziness.

Precautionary statement(s)



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Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist, vapors or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical attention/advice. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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



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

Clear liquid in pressurized container. Solvent odor.

DANGER! Contents under pressure. Containers may explode if heated. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. Causes skin and eye irritation. Suspected of causing cancer.

Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Keep away from extreme heat and direct flame. Wash thoroughly after handling. Do not puncture, incinerate or expose to heat even when empty. Store in a cool, dry, well ventilated area, away from heat and ignition sources.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE or doctor/physician. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a physician or poison control centre immediately. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/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/attention.



Other hazards

Other hazards which do not result in classification: Contact with liquid or refrigerated gas can cause cold burns and frostbite. May cause respiratory tract irritation. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS #	<u>Concentration</u>
Trichloroethylene	79-01-6	60.0 - 100.0
Carbon dioxide	124-38-9	1.0 - 5.0



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escription of first aid m	easures
Ingestion	 Call a physician or poison control centre immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice.
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. Seek immediate medical attention/advice.
Skin contact	 Remove contaminated clothing. Wash contaminated area with soap and lukewarm (not hot), gently running water. Seek immediate medical attention/advice. Wash contaminated clothing before re-use.
Eye contact	 Immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention/advice.
lost important sympton	ns and effects, both acute and delayed
	: Causes skin irritation. Symptoms may include redness, itching and swelling. Causes eye irritation. Symptoms may include stinging and tearing. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. Contact with liquid or refrigerated gas can cause cold burns and frostbite. May cause respiratory irritation. Symptoms may include coughing, choking and wheezing. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
dication of any immedi	ate 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 s	substance or mixture / Conditions of flammability
	: Contents under pressure. Containers may explode if heated. Do not pierce or burn, even after use.
Flammability classification (OSHA	A 29 CFR 1910.106)
	: Non-flammable aerosol.
Explosion Data: Sensitivity to Med	chanical Impact / Static Discharge:
	: Aerosols are sensitive to mechanical impact. Contents under pressure. Take precautionary measures against static discharge.
Hazardous combustion products	
	: Carbon oxides; hydrochloric acid; chlorine; Phosgene; Hydrocarbons; Other unidentified organic compounds.
Special protective equipment and	precautions for firefighters
Protective equipment for fire-fig	hters
	: 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.
SECTION 6. ACCIDENTAL RE	CLEASE MEASURES



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Environmental precautions	 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. Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. 			
Methods and material for contain	nment and cleaning up			
Special spill response procedure	: Remove all sources of ignition. Ventilate area of release. Stop leak if you can do so without risk. Dike for water control. 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). Contact the proper local authorities.			
Special spin response procedure				
	 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): Trichloroethylene (100 lbs / 45.4 kg) 			
SECTION 7. HANDLING AND STORAGE				

Procautions for safe handling

Precautions for safe handling	
	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Keep away from extreme heat and flame. 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. Keep away from direct sunlight.
Conditions for safe storage	: Store in a cool, dry, well ventilated area, away from heat and ignition sources. Store locked up. Keep away from direct sunlight. 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	: Alkali metals; oxidizing agents; Bases; Reducing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:					
Chemical Name	ACGI	H TLV	<u>OSHA</u>	OSHA PEL	
	TWA	<u>STEL</u>	PEL	<u>STEL</u>	
Trichloroethylene	10 ppm	25 ppm	100 ppm	N/Av	
Carbon dioxide	5000 ppm	30,000 ppm	5000 ppm	N/Av	

Exposure controls

Ventilation and engineering measures

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



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General hygiene considerations

: 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.

Appearance:Clear liquid in pressurized container.Odour:Solvent odour.Odour threshold:N/AvpH:N/ApMelting/Freezing point:N/Av
Odour threshold : N/Av pH : N/Ap
pH : N/Ap
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) : > 1
Flammability (solid, gas) : The product is not flammable.
Lower flammable limit (% by vol.)
: N/Av
Upper flammable limit (% by vol.)
: N/Av
Oxidizing properties : None known.
Explosive properties : May be sensitive to static discharge.
Vapour pressure : N/Av
Vapour density : N/Av
Relative density / Specific gravity
: 1.45 (concentrate)
Solubility in water : Insoluble.
Other solubility(ies) :
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 : N/Av
Other physical/chemical comments
: None known or reported by the manufacturer.
SECTION 10 STARILITY AND REACTIVITY

SECTION 10. STABILITY AND REACTIVITY Reactivity : Not normally reactive. Chemical stability : Material is stable under normal conditions. Possibility of hazardous reactions : Hazardous polymerization does not occur. : Conditions to avoid : Keep out of direct sunlight. Keep away from excessive heat, open flames, sparks and

other possible sources of ignition. Do not use in areas without adequate ventilation.



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Incompatible materials :	:	Alkali metals; oxidizing agents; Bases; Reducing agents.
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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 : YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

Sign and symptoms ingration	:	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.
Sign and symptoms skin	:	Causes skin irritation. May be absorbed through the skin. If product is sprayed directly on skin, symptoms of frostbite may be experienced including numbness, prickling and itching.
Sign and symptoms eyes	:	Causes serious 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. May cause liver and kidney damage.
Mutagenicity	:	Not expected to be mutagenic in humans.
Carcinogenicity	:	This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification Carcinogenic Category 1 May cause cancer. Contains:TrichloroethyleneTrichloroethylene is classified as probably carcinogenic by IARC (Group 2A), ACGIH (Category A2) and NTP.
Reproductive effects & Teratoge	nici	
	:	Not expected to cause reproductive effects.
Senitization to material	:	Not expected to be a skin or respiratory sensitizer.
Specific target organ effects	:	Eyes, skin, respiratory system, central nervous system, liver and kidneys.
		This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific Target Organ Toxicity, Single Exposure - Category 3 (cns) May cause drowsiness or dizziness.
Irritancy	:	Not classified as a specific target organ toxicity-repeated exposure. Severe skin irritation. Moderate to severe eye irritant.



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Medical conditions aggravated by overexposure

	:	Pre-existing eye, skin, respiratory, liver, kidney and central nervous system disorders.
Synergistic materials	:	N/Av
Toxicological data	:	

	LC₅₀(4hr)	LD50			
<u>Chemical name</u>	inh, rat	<u>(Oral, rat)</u>	(Rabbit, dermal)		
Trichloroethylene	38.96 mg/L	5602 mg/kg	>2900 mg/kg		
Carbon dioxide	200,000 ppm/2H (mouse)	N/Ap (gas)	N/Ap (gas)		

Other important toxicological hazards

: CNS depression may result from extreme exposures.

SECTION 12. ECOLOGICAL INFORMATION					
Ecotoxicity	:	Do not allow material to contaminate ground water system. See the following tables for the substance's ecotoxicity data.			

Ecotoxicity data:

la sur di sute	040.04	Toxicity to Fish				
Ingredients	CAS No	LC50 / 96h	NOEC / 21 day	M Factor		
Trichloroethylene	79-01-6	40.7mg/L (Fathead minnow)	N/Av	none		

Ingredients	CAS No	То	xicity to Daphnia	
		EC50 / 48h	NOEC / 21 day	M Factor
Trichloroethylene	79-01-6	20.8mg/L (Water flea)	N/Av	none

<u>Ingredients</u>	CAS No	Toxicity to Algae				
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
Trichloroethylene	79-01-6	N/Av	N/Av	none		
Persistence and degradability	1		1			
	Trichloroethyle	lable on the product itself. C ne is not considered to be re	5			
Bioaccumulation potential		lable on the product itself.				
Mobility in soil	: No data is avai	lable on the product itself.				
Other Adverse Environmental	effects					
	: No data is avai	lable on the product itself.				

		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.



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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	2.2(6.1)	none	
TDG Additional information		as LIMITED QUANTITY when transported in containers no larger gross mass. Under the TDGR, refer to Section 1.17 for additionation.			
49CFR/DOT	UN1950	Aerosols	2.2	none	2
49CFR/DOT Additional information		as LIMITED QUANTITY when transported in containers no larger gross mass. For limited quantity shipping information, refer to 4§			ot
ICAO/IATA	UN1950	Aerosol Non-flammable.	2.2(6.1)	none	
ICAO/IATA Additional information	Refer to the appr prior to shipping	opriate Packing Instruction, prior to shipping this material. Review this material.	all State and Op	erator Variat	tions,

Special precautions for user

Environmental hazards

See ECOLOGICAL INFORMATION, Section 12. :

: None reported by the manufacturer.

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

: Not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

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

		TSCA	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
Ingredients CAS	CAS #	Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Trichloroethylene	79-01-6	Yes	100 lb/ 45.4 kg	N/Av	Yes	0.1%	
Carbon dioxide	124-38-9	Yes	N/Ap	N/Av	No	N/Ap	

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: 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.



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US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	Californi	State "Right to Know" Lists						
<u></u>		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Trichloroethylene	79-01-6	Yes	Carcinogen	Yes	Yes	Yes	Yes	Yes	Yes
Carbon dioxide	124-38-9	No	N/Ap	Yes	Yes	Yes	Yes	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:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Trichloroethylene	79-01-6	201-167-4	Present	Present	(2)-105	KE-13680	Present	HSR001555
Carbon dioxide	124-38-9	204-696-9	Present	Present	(1)-310; (1)-169	KE-04683	Present	HSR001018

SECTION 16. OTHER INFORMATION



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Legend	: ACGIH: American Conference of Governmental Industrial Hygienists
	AIHA: American Industrial Hygiene Association
	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
	WEEL: Workplace Environmental Exposure Level
- <i>i</i>	WHMIS: Workplace Hazardous Materials Identification System
References	: Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2015
	(Chempendium, RTECs, HSDB, INCHEM).
	European Chemicals Agency, Classification Legislation, 2015
	Material Safety Data Sheet from manufacturer
	OECD- The Global Portal to Information on Chemical Substances - eChemPortal,
	2015
Preparation Date (mm/dd/yyyy)	
	: 05/14/2015
Reviewed Date SDS (dd/mm/yyy)	()
	: 14/05/2015
Revision No.	: 2
Revision Information	:
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: *2 Flammability: 0 Reactivity: 1
NFPA Rating	0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
	: Health: 2 Flammability: 0 Instability: 0 Special Hazards: None.



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Prepared for:

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.

Prepared by:

ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com



DISCLAIMER

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