SAFETY DATA SHEET



1. Identification

Product identifier	Gunk Brake Parts Cleaner - Chlorinated			
Other means of identification				
SDS number	M720			
Part No.	M720			
Tariff code	2903.23.0000			
Recommended use	Brake Cleaner			
Recommended restrictions	None known.			
Manufacturer/Importer/Supplier/	Distributor information			
Manufacturer				
Company name Address	RSC Chemical Solutions 600 Radiator Road Indian Trail, NC 28079 United States			
Telephone	Customer Service: Technical:	(704) 821-7643 (704) 821-7643		
Website E-mail	www.rscbrands.com sds@rscbrands.com			
Emergency phone number	Emergency Telephone: Emergency Contact:	(303) 623-5716 RMPDC (877-74	0-5015)	
2. Hazard(s) identification				
Physical hazards	Flammable aerosols		Classification not possible	
Health hazards	Skin corrosion/irritation		Category 2	
	Serious eye damage/eye irr	ritation	Category 2B	
	Sensitization, skin		Category 1B	
	Carcinogenicity		Category 1B	
	Specific target organ toxicit	y, single exposure	Category 3 narcotic effects	
	Specific target organ toxicit	y, repeated	Category 2	
Environmental hazards	Hazardous to the aquatic en hazard	nvironment, acute	Category 2	
	Hazardous to the aquatic environment, long-term hazard		Category 3	
OSHA defined hazards	Not classified.			
Label elements				



Danger

Signal word Hazard statement

Contains gas under pressure; may explode if heated. Causes skin irritation. May cause an allergic skin reaction. Causes eye irritation. May cause drowsiness or dizziness. May cause cancer. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep 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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	2.56, 2.56% of the mixture consists of component(s) of unknown acute oral toxicity. 2.56% of the mixture consists of component(s) of unknown acute dermal toxicity. 97.44% of the mixture consists of component(s) of unknown acute inhalation toxicity.
	NOTE: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The container label may not include the OSHA label elements listed in this document. Always carefully review the entire SDS and the product label prior to use in the workplace.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Perchlorethylene		127-18-4	90 - 100
Carbon Dioxide		124-38-9	1 - < 3

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye contact	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.
Ingestion	In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
5. Fire-fighting measures	

Suitable extinguishing mediaWater fog. Foam. Dry chemical powder. Carbon dioxide (CO2).Unsuitable extinguishing
mediaDo not use water jet as an extinguisher, as this will spread the fire.Specific hazards arising from
the chemicalDuring fire, gases hazardous to health may be formed.Special protective equipment
and precautions for firefightersSelf-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions	Containers should be cooled with water to prevent vapor pressure build up.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Ground and bond containers when transferring material. Do not re-use empty containers. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage,	Level 1 Aerosol.
including any incompatibilities	Store locked up. Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contar Components	Type	Value
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m3
,		5000 ppm
US. OSHA Table Z-2 (29 CFR 1910.1000)		
Components	Туре	Value
Perchlorethylene (CAS 127-18-4)	Ceiling	200 ppm
	TWA	100 ppm
US. ACGIH Threshold Limit Values		
Components	Туре	Value
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
Perchlorethylene (CAS 127-18-4)	STEL	100 ppm

Components	Т	уре		V	alue
	T	WA		2	5 ppm
US. NIOSH: Pocket Guid	le to Chemical Hazar	ds			
Components	T	уре		V	alue
Carbon Dioxide (CAS 124-38-9)	S	TEL		54	4000 mg/m3
	יד	WA		90	0000 ppm 000 mg/m3 000 ppm
ological limit values					
ACGIH Biological Expos					
Components	Value		Determinant	Specimen	Sampling Time
Perchlorethylene (CAS 127-18-4)	0.5 mg/l		Tetrachloroethy lene	Blood	*
	3 ppm		Tetrachloroethy lene	End-exhalec air	*
* - For sampling details, p	lease see the source	docı	iment.		
posure guidelines					
US - Minnesota Haz Sub	s: Skin designation	appl	ies		
Perchlorethylene (CA	S 127-18-4)		Skin de	signation appli	ies.
propriate engineering ntrols	should be match or other enginee exposure limits l	Good general ventilation (typically 10 air changes per hour) 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. Eye wash fountain and emergency showers are recommended.			
lividual protection measu Eye/face protection	res, such as persona Not available.	al pr	otective equipme	nt	
Skin protection					
Hand protection	Wear appropriat	te ch	emical resistant gl	oves.	
Other		Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.			
Respiratory protection	Chemical respira	Chemical respirator with organic vapor cartridge and full facepiece. Chemical respirator with organic vapor cartridge and full facepiece if threshold limits are exceeded.			
Thermal hazards	c 1		ermal protective cl		
neral hygiene nsiderations	personal hygien drinking, and/or	Observe any medical surveillance requirements. When using do not smoke. 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. Contaminated work clothing should not be allowed out of the workplace.			
Physical and chemic	al properties				
pearance	Clear. Liquid				
Physical state	Liquid.				
Form	Aerosol.				
Color	Colorless				
or	Sweet chlorofor	m lik	e		
or threshold	Not available.				

Melting point/freezing point-8.14 °F (-22.3 °C) estimatedInitial boiling point and boiling
range250.34 °F (121.3 °C) estimatedFlash pointNoneEvaporation rateNot available.Flammability (solid, gas)Not applicable.

рΗ

Not available.

Upper/lower flammability or explosive limits

opper/lower naminability or explosive limits					
Not available. estimated					
Not available. estimated					
Not available.					
Not available.					
13 mm Hg @20°C					
Not available.					
Not available.					
530 ppm					
Not available.					
Not available.					
Not available.					
Not available.					
13.52 lbs/gal					
Not explosive.					
1.03 kJ/g					
Not oxidizing.					
100 %					
1.62					

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Hydrogen chloride.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Information on toyloglasiaal off	

Information on toxicological effects

Acute toxicity

Not known.

Components	Species	Test Results
Perchlorethylene (CAS 127-18-4)		
Acute		
Oral		
LD50	Rat	2400 mg/kg
* Estimates for product may b	e based on additional component data not shown.	
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes eye irritation.	
Respiratory or skin sensitizatior	1	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	No data available to indicate product or any compo mutagenic or genotoxic.	nents present at greater than 0.1% are
Carcinogenicity	May cause cancer.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Perchlorethylene (CAS 1: OSHA Specifically Regulate	27-18-4) 2A Probably carcine d Substances (29 CFR 1910.1001-1050)	ogenic to humans.
Not regulated.		
••	ogram (NTP) Report on Carcinogens	
Perchlorethylene (CAS 1)	· · ·	ated to be a Human Carcinogen.
Reproductive toxicity	This product is not expected to cause reproductive	or developmental effects.
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.	
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or	repeated exposure.
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	May cause damage to organs through prolonged of be harmful. Prolonged exposure may cause chronic	
12. Ecological information	1	
Ecotoxicity	Toxic to aquatic life. Harmful to aquatic life with lon	g lasting effects.
Components	Species	Test Results
Perchlorethylene (CAS 127-1)	8-4)	

Perchlorethylene (CAS	S 127-18-4)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	6.1 - 9 mg/l, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4.82 mg/l, 96 hours	

* Estimates for product may be based on additional component data not shown.

Persistence and degradabil	ity
Bioaccumulative potential	
Partition coefficient n-o Perchlorethylene	octanol / water (log Kow) 3.4
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.

Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	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).
Contaminated packaging	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.

14. Transport information

DOT

DOT	
UN number	Not available.
UN proper shipping name	Consumer Commodity
Transport hazard class(es)	
Class	ORM-D
Subsidiary risk	-
Packing group	Not available.
	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	8, 146, 335, IB3, T4, TP1, TP29
Packaging exceptions	155
Packaging non bulk	203
Packaging bulk	241
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosol, non flammable
Transport hazard class(es)	
Class	2.2
Subsidiary risk	6.1
Packing group	Not available.
Environmental hazards	Yes
ERG Code	9L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1950
UN proper shipping name	Aerosols, MARINE POLLUTANT
Transport hazard class(es)	
Class	2.2
Subsidiary risk	6.1
Packing group	Not available.
Environmental hazards	
Marine pollutant	Yes
EmS	F-D, S-U
	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and the IBC Code	
Marine pollutant	
\wedge	



General information	IMDG Regulated Marine Pollutant.			
15. Regulatory information	C C			
US federal regulations		rdous Chemical" as	defined by the OSHA H	azard Communication
	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.			
TSCA Section 12(b) Export N	Notification (40 CFR 707	7, Subpt. D)		
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302.4)			
Perchlorethylene (CAS 12	. ,	Listed.		
SARA 304 Emergency release	e notification			
Not regulated.	d Cubatanaaa (00 OFD 1	1010 1001 1050		
OSHA Specifically Regulated Not regulated.	D Substances (29 CFR	1910.1001-1050)		
Superfund Amendments and Re	authorization Act of 198	B6 (SABA)		
Hazard categories	Immediate Hazard - Ye Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No			
SARA 302 Extremely hazard Not listed.	ous substance			
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
Perchlorethylene		127-18-4	90 - 100	
Other federal regulations				
Clean Air Act (CAA) Section		lutants (HAPs) List		
Perchlorethylene (CAS 12 Clean Air Act (CAA) Section	,	ase Prevention (40	CFR 68.130)	
Not regulated.	N			
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations	WARNING: This produce	ct contains a chemi	cal known to the State of	f California to cause cancer.
US - California Proposit		•		
Perchlorethylene (CA US. California. Candidat subd. (a))		Listed: Apri Consumer Produce		ode Regs, tit. 22, 69502.3,
Perchlorethylene (CA	S 127-18-4)			
International Inventories)			
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Inventory of	Chemical Substanc	es (AICS)	Yes
Canada	Domestic Substances L	_ist (DSL)		Yes
Canada	Non-Domestic Substan	ces List (NDSL)		No
China	Inventory of Existing Ch	nemical Substances	in China (IECSC)	Yes
Europe	European Inventory of Substances (EINECS)	Existing Commercia	l Chemical	Yes
Europe	European List of Notifie	ed Chemical Substa	nces (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS) Yes			
Korea	Existing Chemicals List	E(ECL)		Yes
New Zealand	New Zealand Inventory	,		Yes
Philippines	Philippine Inventory of ((PICCS)	Chemicals and Che	mical Substances	Yes

Country(s) or region

Inventory name

Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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).

16. Other information, including date of preparation or last revision

Issue date	04-24-2015
Revision date	03-19-2018
Version #	08
HMIS® ratings	Health: 2* Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 0 Instability: 0
NFPA ratings	
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.