SAFETY DATA SHEET

1. Identification

Product number Product identifier Company information	0619773 Talon Chlorinated Brake Cleaner FASTENAL 2001 THEURER BLVD WINONA, MN 55987 United States
Emergency telephone US Emergency telephone outside US	1-866-836-8855 1-952-852-4646
Version # Recommended use Recommended restrictions	01 CLEANER None known.

2. Hazard(s) identification

Physical hazards

OSHA defined hazards

Health hazards

Label elements

Gases under pressure	Compressed gas
Carcinogenicity	Category 2
Not classified.	



Signal word	Warning				
Hazard statement	Contains gas under pressure; may explode if heated. Suspected of causing cancer.				
Precautionary statement					
Prevention	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.				
Response	If exposed or concerned: Get medical advice/attention.				
Storage	Store locked up. Protect from sunlight. Store in a well-ventilated place.				
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.				
Hazard(s) not otherwise classified (HNOC)	None known.				
Supplemental information	None.				
Response Storage Disposal Hazard(s) not otherwise classified (HNOC)	and understood. Wear protective gloves/protective clothing/eye protection/face protection. If exposed or concerned: Get medical advice/attention. Store locked up. Protect from sunlight. Store in a well-ventilated place. Dispose of contents/container in accordance with local/regional/national/international regulations. None known.				

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Perchloroethylene		127-18-4	90 - 100
Carbon Dioxide		124-38-9	2.5 - 10

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

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	No specific first aid measures noted.
Ingestion	Not likely, due to the form of the product.

Most important symptoms/effects, acute and delayed	Headache. Dizziness. Nausea.
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. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Cool containers exposed to flames with water until well after the fire is out.
General fire hazards	Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. 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. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. 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. Keep away from heat/sparks/open flames/hot surfaces No smoking. 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

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. 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. Level 1 Aerosol.

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. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Components		Туре		v	alue
Carbon Dioxide (CAS 124-38-9)		PEL		9	000 mg/m3
,				5	000 ppm
US. OSHA Table Z-2 (29	CFR 1910.1000)				
Components		Туре		v	alue
Perchloroethylene (CAS 127-18-4)		Ceilin	g	2	00 ppm
,		TWA		1	00 ppm
US. ACGIH Threshold Li	mit Values				
Components		Туре		v	alue
Carbon Dioxide (CAS 124-38-9)		STEL		3	0000 ppm
,		TWA		5	000 ppm
Perchloroethylene (CAS 127-18-4)		STEL		1	00 ppm
		TWA		2	5 ppm
US. NIOSH: Pocket Guid	e to Chemical H	azards			
Components		Туре		v	alue
Carbon Dioxide (CAS 124-38-9)		STEL		5	4000 mg/m3
				3	0000 ppm
		TWA		9	000 mg/m3
				5	000 ppm
ogical limit values					
ACGIH Biological Expos	ure Indices				
Components	Value		Determinant	Specimen	Sampling Time
Perchloroethylene (CAS 127-18-4)	0.5 mg/l		Tetrachloroethy lene	Blood	*
	_				

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

3 ppm

Exposure guidelines

US - Minnesota Haz Subs: Skin designation applies

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Perchloroethylene (CAS 1	127-18-4) Skin designation applies.		
Appropriate engineering controls	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.		
Individual protection measures,	such as personal protective equipment		
Eye/face protection	If contact is likely, safety glasses with side shields are recommended.		
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.		
Other	Wear suitable protective clothing. Use of an impervious apron is recommended.		

Tetrachloroethy

lene

End-exhaled

air

Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	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.

9. Physical and chemical properties

Appearance				
Physical state	Gas.			
Form	Aerosol. Compressed gas.			
Color	Not available.			
Odor	Not available.			
Odor threshold	Not available.			
рН	Not available.			
Melting point/freezing point	Not available.			
Initial boiling point and boiling range	Not available.			
Flash point	Not available.			
Evaporation rate	Not available.			
Flammability (solid, gas)	Not available.			
Upper/lower flammability or explosive limits				
Flammability limit - lower (%)	Not available.			
Flammability limit - upper (%)	Not available.			
Explosive limit - lower (%)	Not available.			
Explosive limit - upper (%)	Not available.			
Vapor pressure	80 psig @70F estimated			
Vapor density	Not available.			
Relative density	Not available.			
Solubility(ies)				
Solubility (water)	Not available.			
Auto-ignition temperature	Not available.			
Decomposition temperature	Not available.			
Viscosity	Not available.			
Other information				
Explosive properties	Not explosive.			
Oxidizing properties	Not oxidizing.			
Specific gravity	1.619 estimated			
10. Stability and reactivity				

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	Hazardous polymerization does not occur.
Conditions to avoid	Heat. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Hydrogen chloride.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Headache. Dizziness. Nausea.

Information on toxicological effects

Acute toxicity

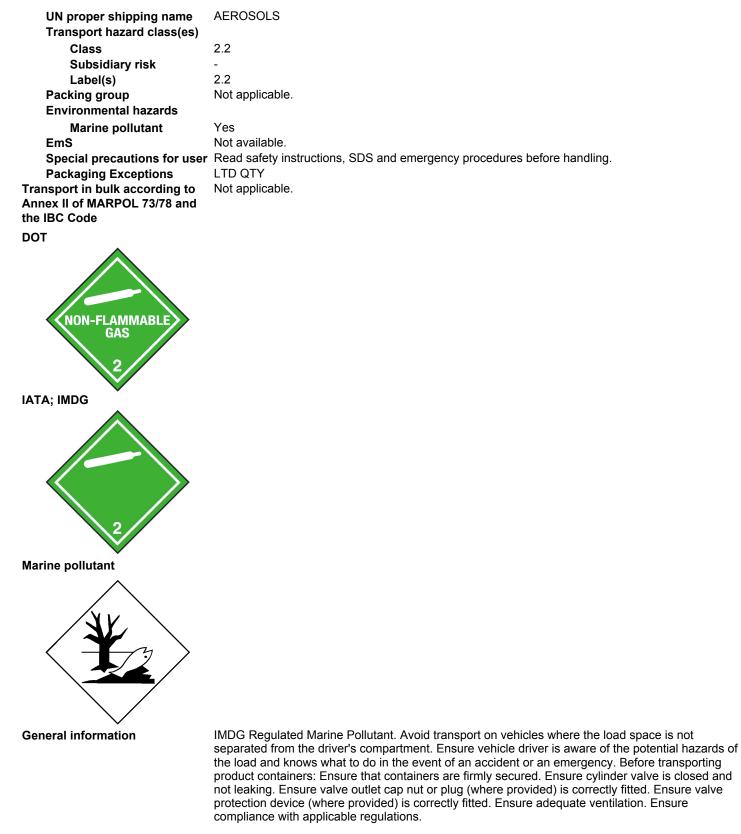
Acute toxicity					
Components	Species		Test Results		
Perchloroethylene (CAS 127-18-4))				
<u>Acute</u>					
Inhalation					
LC50	Dog; Mouse; Rabbit; Rat		3000 ppm		
Oral					
LD50	Cat; Dog; Mouse; Rabbit; Ra	at	> 1500 mg/kg		
	Rat		3005 mg/kg		
* Estimates for product may b	e based on additional componer	nt data not shown.			
Skin corrosion/irritation	Prolonged skin contact may ca	ause temporary irritation	n.		
Serious eye damage/eye irritation	Direct contact with eyes may c	cause temporary irritation	on.		
Respiratory or skin sensitization	ı				
Respiratory sensitization	Not a respiratory sensitizer.				
Skin sensitization	This product is not expected to	o cause skin sensitizati	on.		
Germ cell mutagenicity	No data available to indicate p mutagenic or genotoxic.	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	Suspected of causing cancer.	Suspected of causing cancer.			
IARC Monographs. Overall I	Evaluation of Carcinogenicity				
Perchloroethylene (CAS		2A Probably carcinog	jenic to humans.		
	d Substances (29 CFR 1910.10	001-1050)			
Not listed.	ogram (NTP) Report on Carcin	odens			
Perchloroethylene (CAS	• • • •	•	ed to be a Human Carcinogen.		
Reproductive toxicity	This product is not expected to				
Specific target organ toxicity - single exposure	Not classified.				
Specific target organ toxicity - repeated exposure	Not classified.				
Aspiration hazard	Not likely, due to the form of the product.				
Chronic effects	Prolonged inhalation may be h	armful. Prolonged exp	osure may cause chronic effects.		
12. Ecological information	1				
Ecotoxicity	Toxic to aquatic life with long l	asting effects.			
Components	Species		Test Results		

Components		Species	Test Results	
Perchloroethylene (CA	AS 127-18-4)			
Aquatic				
Crustacea	EC50	Daphnia	7.55 mg/L, 48 Hours	
		Water flea (Daphnia magna)	6.1 - 9 mg/l, 48 hours	

Components		Species	Test Results
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4.82 mg/l, 96 hours
* Estimates for product may b	e based on add	itional component data not shown.	
Persistence and degradability	No data is ava	ailable on the degradability of this product.	
Bioaccumulative potential			
Partition coefficient n-octar Perchloroethylene	ol / water (log	Kow) 3.4	
Mobility in soil	No data availa	able.	
Other adverse effects		erse environmental effects (e.g. ozone dep ocrine disruption, global warming potential	
13. Disposal consideration	ns		
Disposal instructions	under pressu sewers/water	cclaim or dispose in sealed containers at lie re. Do not puncture, incinerate or crush. Do supplies. Do not contaminate ponds, wate pose of contents/container in accordance	o not allow this material to drain into rways or ditches with chemical or used
Local disposal regulations	Dispose in ac	cordance with all applicable regulations.	
Hazardous waste code	The waste co disposal com	de should be assigned in discussion betwe pany.	een the user, the producer and the waste
Waste from residues / unused products		accordance with local regulations. Empty o ues. This material and its container must b uctions).	
Contaminated packaging	emptied. Emp	d containers may retain product residue, for ty containers should be taken to an appro- not re-use empty containers.	Ilow label warnings even after container is ved waste handling site for recycling or

14. Transport information

DOT	
UN number	UN1950
UN proper shipping name	Aerosols
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, non-flammable
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Packing group	Not applicable.
Environmental hazards	Yes
ERG Code	2L
• •	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
Packaging Exceptions	LTD QTY
IMDG	
UN number	UN1950



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Sub	stance List (40 CFR 302.4)			
Perchloroethylene (CA		Listed.		
SARA 304 Emergency re	lease notification			
Not regulated.				
	ated Substances (29 CFR	1910.1001-1050)		
Not listed.	Deputherization Act of 400			
Superfund Amendments and Hazard categories	Immediate Hazard - No			
nazaru categones	Delayed Hazard - Yes	,		
	Fire Hazard - No Pressure Hazard - Yes			
	Reactivity Hazard - No			
SARA 302 Extremely haz	-			
Not listed.				
SARA 311/312 Hazardou chemical	s No			
SARA 313 (TRI reporting)			
Chemical name		CAS number	% by wt.	
Perchloroethylene		127-18-4	90 - 100	
ther federal regulations				
Clean Air Act (CAA) Sect	tion 112 Hazardous Air Pol	lutants (HAPs) List		
Perchloroethylene (CA	,			
• •	tion 112(r) Accidental Relea	ase Prevention (40 CFR	68.130)	
Not regulated.	Not regulated			
Safe Drinking Water Act	Not regulated.			
(SDWA)				
S state regulations				
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Product name: Talon Chlorinated Brake Cleaner

Country(s) or region	Inventory name	On inventory (yes/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
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

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

country(s).

Issue date	01-08-2016
Version #	01
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	Product and Company Identification: Alternate Trade Names