

SAFETY DATA SHEET

1. Identification

Product identifier	QC-82™ Pro-Strength Degreaser		
Other means of identification			
Product code	05482		
Recommended use	General purpose degreaser		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplie	Manufacturer/Importer/Supplier/Distributor information		
Manufactured or sold by:			
Company name	CRC Industries, Inc.		
Address	885 Louis Dr.		
	Warminster, PA 18974 US		
Telephone			
General Information	215-674-4300		
Technical	800-521-3168		
Assistance			
Customer Service	800-272-4620		
24-Hour Emergency	800-424-9300 (US)		
(CHEMTREC)	703-527-3887 (International)		
Website	www.crcindustries.com		

2. Hazard(s) identification

Physical hazards	Gases under pressure	Liquefied gas
Health hazards	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Warning
Hazard statement	Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49 °C/120 °F. Use with adequate ventilation. 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 breathe gas, mist or vapor. Wash hands thoroughly after handling. Wear eye/face protection. Avoid release to the environment.
Response	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 attention. Get medical advice/attention if you feel unwell.
Storage	Protect from sunlight. Store in a well-ventilated place. Exposure to high temperature may cause can to burst.
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

Supplemental information

15.08% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 15.53% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	70 - 80
Liquefied Petroleum Gas		68476-86-8	5 - 10
Surfactant		Proprietary	5 - 10
2-Butoxyethanol		111-76-2	3 - 5
Trisodium citrate dihydrate		6132-04-3	3 - 5

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	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
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	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. 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	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.	
Unsuitable extinguishing media	None known.	
Specific hazards arising from the chemical	Contents under pressure.	
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.	
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. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. 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. In the event of fire, cool tanks with water spray.	
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. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not breathe gas. 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	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Stop the flow of material, if this is without risk. Collect spillage. Dike far ahead of spill for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. 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. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.	

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. Do not breathe mist or vapor. Do not breathe gas. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains. For
	product usage instructions, please see the product label.
Conditions for safe storage, including any incompatibilities	Level 1 Aerosol.
	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. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

8. Exposure controls/personal protection

Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
		50 ppm	
US. ACGIH Threshold Limit Valu	les		
Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
US. NIOSH: Pocket Guide to Ch	emical Hazards		
Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3	
,		5 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Exposure guidelines

Exposure guidennes		
US - California OELs: Skin c	lesignation	
2-Butoxyethanol (CAS 111-76-2)		Can be absorbed through the skin.
US - Minnesota Haz Subs: Skin designation applies		
2-Butoxyethanol (CAS 111-76-2)		Skin designation applies.
US - Tennesse OELs: Skin o	lesignation	
2-Butoxyethanol (CAS 11	1-76-2)	Can be absorbed through the skin.
US NIOSH Pocket Guide to	Chemical Hazards: Skin desig	nation
2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.		Can be absorbed through the skin.
US. OSHA Table Z-1 Limits	for Air Contaminants (29 CFR	1910.1000)
2-Butoxyethanol (CAS 11	1-76-2)	Can be absorbed through the skin.
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. Provide eyewash station.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin protection		
Hand protection	Wear protective gloves such as nitrile or rubber.	
Other	Wear appropriate chemical re	sistant clothing.

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. 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. 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	Liquid.
Form	Aerosol.
Color	Light yellow.
Odor	Mild.
Odor threshold	Not available.
рН	9.1
Melting point/freezing point	-103 °F (-75 °C) estimated
Initial boiling point and boiling range	212 °F (100 °C) estimated
Flash point	None (Tag Closed Cup)
Evaporation rate	Slow.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.3 % estimated
Flammability limit - upper (%)	10.6 % estimated
Vapor pressure	278 hPa estimated
Vapor density	Not available.
Relative density	1.04 estimated
Solubility (water)	Soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	302 °F (150 °C) estimated
Decomposition temperature	Not available.
Viscosity (kinematic)	Not available.
Percent volatile	87.2 % estimated

10. Stability and reactivity

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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	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Information on likely routes of	exposure
Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful. May cause damage to organs by inhalation.
Skin contact	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological eff	ects		
Acute toxicity	Causes eye irritation.		
Product	Species	Test Results	
QC-82 [™] Pro-Strength Degreaser			
Acute			
Dermal			
LD50	Rabbit	4508.5723 mg/kg estimated	
Inhalation			
LC50	Rat	9667.0244 ppm, 4 hours estimated	
		68.2245 mg/l, 4 hours estimated	
Oral			
LD50	Rat	4712.3774 mg/kg estimated	
* Estimates for product may b	e based on additional component data not shown.		
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritati	on.	
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory sensitization	Not available.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
2-Butoxyethanol (CAS 1	3 Not classifiable as to carcinogenicity to humans.		
Reproductive toxicity	This product is not expected to cause reproductive of	or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	Not likely, due to the form of the product.		
Chronic effects	Prolonged inhalation may be harmful. May be harmf	ul if absorbed through skin.	
	2-Butoxy ethanol may be absorbed through the skin prolonged. These effects have not been observed i		
	May cause damage to organs through prolonged or	repeated exposure.	

12. Ecological information

otoxicity	Harmful t	Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.		
Product	Species		Test Results	
QC-82™ Pro-Strength	n Degreaser			
Acute				
Crustacea	EC50	Daphnia	11.1767 mg/l, 48 hours estimated	
Fish	LC50	Fish	36.3294 mg/l, 96 hours estimated	
Components		Species	Test Results	
2-Butoxyethanol (CAS	5 111-76-2)			
Aquatic				
Acute				
Crustacea	EC50	Water flea (Daphnia magna)	1550 mg/l, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 1000 mg/l, 96 hours	
Surfactant (CAS Prop	rietary)			
Acute				
Crustacea	EC50	Daphnia	1 - 10 mg/l, 48 hours	
Fish	LC50	Fish	1 - 10 mg/l, 96 hours	

Components		Species	Test Results
Trisodium citrate dihydrate (CAS 6132-04	-3)	
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	655 - 825.9 mg/l, 48 hours
* Estimates for product may	be based on	additional component data not shown.	
ersistence and degradability	No data is available on the degradability of this product.		
ioaccumulative potential	No data available.		
Partition coefficient n-octa	nol / water (l	og Kow)	
2-Butoxyethanol		0.81, log Pow	
obility in soil	No data available.		
ther 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 of waste from residues / unused products	The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). Empty container can be recycled. Consult authorities before disposal. 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 regulations.
Hazardous waste code	Not regulated.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

Th transport information	
DOT	
UN number	UN1950
UN proper shipping name	Aerosols, non-flammable, limited quantity
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Packing group	Not applicable.
· · ·	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, limited quantity
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	2L
· ·	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed.
aircraft	
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS, LIMITED QUANTITY
Transport hazard class(es)	
Class	2
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

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15. Regulatory information		
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Haza Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.	rd Communication
TSCA Section 12(b) Export N	lotification (40 CFR 707, Subpt. D)	
Not regulated. SARA 304 Emergency releas	e notification	
Not regulated.		
US. OSHA Specifically Regu	lated Substances (29 CFR 1910.1001-1050)	
Not listed. US EPCRA (SARA Title III) S 2-Butoxyethanol (CAS 11	ection 313 - Toxic Chemical: Listed substance	
CERCLA Hazardous Substa	•	
2-Butoxyethanol (CAS 11 CERCLA Hazardous Substan		
Not listed.		
Spills or releases resulting Response Center (800-42	i in the loss of any ingredient at or above its RQ require immediate notifi 4-8802) and to your Local Emergency Planning Committee.	cation to the National
	112 Hazardous Air Pollutants (HAPs) List	
Not regulated. Clean Air Act (CAA) Section	112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
Food and Drug Administration (FDA)	Not regulated.	
Superfund Amendments and	Reauthorization Act of 1986 (SARA)	
Section 311/312 Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No	
SARA 302 Extremely hazardous substance	No	
S state regulations		
US. New Jersey RTK - Subst	ances: Listed substance	
2-Butoxyethanol (CAS 11		
US. Massachusetts RTK - Su		
2-Butoxyethanol (CAS 11 US. Pennsylvania RTK - Haz	•	
2-Butoxyethanol (CAS 11		
US. Rhode Island RTK		
2-Butoxyethanol (CAS 11	1-76-2)	
	5 /ater and Toxic Enforcement Act of 1986 (Proposition 65): This material sted as carcinogens or reproductive toxins.	is not known to contain
Volatile organic compounds (VO		
EPA VOC content (40 CFR 51.100(s))	9.7 %	
Consumer products	Not regulated	
(40 CFR 59, Subpt. C) State		
Consumer products	This product is regulated as a General Purpose Degreaser (aerosol). Tuse in all 50 states.	his product is compliant fo
VOC content (CA)	9.7 %	
VOC content (OTC)	9.7 %	
nternational Inventories		
Country(s) or region	Inventory name	On inventory (yes/ne
Australia	Australian Inventory of Chemical Substances (AICS)	۲

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
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).

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

Issue date	11-21-2013
Prepared by	Allison Cho
Version #	01
Further information	CRC # 692A
HMIS® ratings	Health: 2* Flammability: 1 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
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