

SAFETY DATA SHEET

1. Identification

Product identifier	HydroForce® Industrial Strength Degrease	r
Other means of identification		
Product Code	No. 14416 (Item# 1004972)	
Recommended use	General purpose degreaser	
Recommended restrictions	None known.	
lanufacturer/Importer/Supplier/	Distributor information	
lanufactured or sold by:		
Company name	CRC Industries, Inc.	
Address	885 Louis Dr.	
	Warminster, PA 18974 US	
Telephone		
General Information	215-674-4300	
Technical Assistance	800-521-3168	
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		
hysical hazards	Corrosive to metals	Category 1
ealth hazards	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Specific target organ toxicity, single exposure	Category 1 (gastrointestinal system, respiratory system)
	Specific target organ toxicity, repeated exposure (inhalation)	Category 2 (respiratory system)
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
SHA defined hazards	Not classified.	
abel elements		
Signal word	Danger	
Hazard statement	May be corrosive to metals. Causes severe skin burns and eye damage. Harmful if inhaled. Causes damage to organs (gastrointestinal system, respiratory system). May cause damage to organs (respiratory system) through prolonged or repeated exposure by inhalation. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.	
Precautionary statement		
Prevention	Keep container tightly closed. Do not breathe vapor. 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. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.	

Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If exposed: Call a poison center/doctor. Absorb spillage to prevent material damage.	
Storage	Store locked up. Store in corrosive resistant container.	
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
water		7732-18-5	70 - 80
sodium xylenesulphonate		1300-72-7	5 - 10
alcohols, C12-15, ethoxylated		68131-39-5	1 - 3
dioctyl sodium sulfosuccinate		577-11-7	1 - 3
dipropylene glycol monomethyl ether		34590-94-8	1 - 3
potassium hydroxide		1310-58-3	1 - 3
sodium metasilicate		6834-92-0	1 - 3
tetrasodium ethylenediaminetetraacetate		64-02-8	1 - 3

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. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.	
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. 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. Call a physician or poison control center immediately.	
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.	
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.	
Indication of immediate medical attention and special	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an	

Indication of immediate
medical attention and special
treatment neededProvide general supportive measures and treat symptomatically. Chemical burns: Flush with water
immediately. While flushing, remove clothes which do not adhere to affected area. Call an
ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under
observation. Symptoms may be delayed.General informationEnsure that medical personnel are aware of the material(s) involved, and take precautions to

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
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	Move containers from fire area if you can do so without risk.

protect themselves.

6. Accidental release measures

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 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	This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. 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	Do not breathe vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Keep container tightly closed. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Components	Туре	Value
dipropylene glycol monomethyl ether (CAS 34590-94-8)	PEL	600 mg/m3
		100 ppm
US. ACGIH Threshold Limit	Values	
Components	Туре	Value
dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	150 ppm
,	TWA	100 ppm
potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3
US. NIOSH: Pocket Guide to	Chemical Hazards	
Components	Туре	Value
dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	900 mg/m3
·		150 ppm
	TWA	600 mg/m3
		100 ppm
potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3
ogical limit values	No biological exposure limits r	oted for the ingredient(s).
osure guidelines		
US - California OELs: Skin o	designation	
	methyl ether (CAS 34590-94-8)	Can be absorbed through the skin.
dipropylene glycol monomethyl ether (CAS 34590-94-8)		Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin. US NIOSH Pocket Guide to Chemical Hazards: Skin designation dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin. US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin. Appropriate engineering Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates controls 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. Eye wash facilities and emergency shower should be available when handling this product. 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. Rubber. Other Wear appropriate chemical resistant clothing. **Respiratory protection** If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels. Wear appropriate thermal protective clothing, when necessary. **Thermal hazards** Always observe good personal hygiene measures, such as washing after handling the material **General hygiene** and before eating, drinking, and/or smoking. Routinely wash work clothing and protective considerations equipment to remove contaminants.

9. Physical and chemical properties

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Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Red.
Odor	Pleasant.
Odor threshold	Not available.
рН	13.1
Melting point/freezing point	-112 °F (-80 °C) estimated
Initial boiling point and boiling	212 °F (100 °C) estimated
range	
Flash point	None.
Evaporation rate	Slow.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.1 % estimated
Flammability limit - upper (%)	36 % estimated
Vapor pressure	18.4 hPa estimated
Vapor density	Not available.
Relative density	1.09
Solubility(ies)	
Solubility (water)	Soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	404.6 °F (207 °C) estimated
Decomposition temperature	Not available.
Percent volatile	80.5 % estimated

10. Stability and reactivity

Reactivity	Reacts violently with strong acids. This product may react with oxidizing agents. May be corrosive to metals.
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. Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizing agents. Metals.
Hazardous decomposition products	Aldehydes. Ketones. Organic acids.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled. May cause damage to organs by inhalation. May cause damage to organs through prolonged or repeated exposure by inhalation.	
Skin contact	Causes severe skin burns.	
Eye contact	Causes serious eye damage.	
Ingestion	Causes digestive tract burns.	
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.	

Information on toxicological effects

Acute toxicity	Harmful if inhaled.	
Components	Species	Test Results
alcohols, C12-15, ethoxyla	ited (CAS 68131-39-5)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	< 5000 mg/kg
Oral		
LD50	Rat	1600 - 2700 mg/kg
dipropylene glycol monom	ethyl ether (CAS 34590-94-8)	
Acute		
Dermal		
LD50	Rabbit	9510 mg/kg
Inhalation		
LC50	Rat	552 ppm
Oral		
LD50	Rat	5135 mg/kg
potassium hydroxide (CAS	\$ 1310-58-3)	
Acute		
Oral		
LD50	Rat	273 mg/kg
sodium metasilicate (CAS	6834-92-0)	
Acute		
Oral		
LD50	Rat	1280 mg/kg
sodium xylenesulphonate	(CAS 1300-72-7)	
Acute		
Dermal		<i>"</i>
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	> 3356 mg/kg

Components	Species	Test Results	
tetrasodium ethylenediaminetetra	tetrasodium ethylenediaminetetraacetate (CAS 64-02-8)		
Acute			
Oral			
LD50	Rat	> 2000 mg/kg	
Skin corrosion/irritation	Causes severe skin burns ar	nd eye damage.	
Serious eye damage/eye irritation	Causes serious eye damage		
Respiratory or skin sensitizatio	n		
Respiratory sensitization	Not a respiratory sensitizer.		
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	Not classifiable as to carcinogenicity to humans.		
IARC Monographs. Overall Evaluation of Carcinogenicity Not listed.			
OSHA Specifically Regulate	ed Substances (29 CFR 1910.	1001-1052)	
Not regulated.			
US. National Toxicology Program (NTP) Report on Carcinogens Not listed.			
Reproductive toxicity	This product is not expected	to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Causes damage to organs (gastrointestinal system, respiratory system).		
Specific target organ toxicity - repeated exposure	May cause damage to organs (respiratory system) through prolonged or repeated exposure by inhalation.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.		

12. Ecological information

otoxicity	Harmful to	Harmful to aquatic life with long lasting effects.	
Components		Species	Test Results
alcohols, C12-15, etho	oxylated (CAS 6813	1-39-5)	
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	0.4 - 0.75 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	2.7 mg/l, 96 hours
dioctyl sodium sulfosu	ccinate (CAS 577-1	1-7)	
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	20 - 40 mg/l, 96 hours
dipropylene glycol mor	nomethyl ether (CA	S 34590-94-8)	
Aquatic			
Acute			
Crustacea	EC50	Daphnia	> 5000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	10000 mg/l, 96 hours
potassium hydroxide (CAS 1310-58-3)		
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	80 mg/l, 96 hours
sodium metasilicate (C	CAS 6834-92-0)		
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	0.28 - 0.57 mg/l, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis)	1800 mg/l, 96 hours

Material name: HydroForce® Industrial Strength Degreaser

No. 14416 (Item# 1004972) Version #: 02 Revision date: 04-03-2018 Issue date: 02-02-2015

Components		Species	Test Results
sodium xylenesulphonate (C	AS 1300-72-7	7)	
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	> 1020 mg/l, 48 hours
tetrasodium ethylenediamine	etetraacetate ((CAS 64-02-8)	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 100 mg/l, 96 hours
Acute			
Crustacea	EC50	Invertebrates (Invertebrates)	> 100 mg/l, 48 hours
ersistence and degradability	No data is	available on the degradability of any ingr	edients in the mixture.
oaccumulative potential			
obility in soil	No data av	vailable.	
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.		
3. Disposal consideration	ons		
azardous waste code	D002: Wa	ste Corrosive material [pH <=2 or =>12.5	, or corrosive to steel]
ontaminated 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.		
sposal instructions	dispose in sewers/wa	sealed containers at licensed waste disp	rosive waste, D002. Collect and reclaim or osal site. Do not allow this material to drain into waterways or ditches with chemical or used e regulations.

14. Transport information

рот	
UN number	UN1760
UN proper shipping name	Corrosive liquids, n.o.s. (potassium hydroxide RQ = 55556 LBS, sodium metasilicate)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	П
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	B2, IB2, T11, TP2, TP27
Packaging exceptions	154
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1760
UN proper shipping name	Corrosive liquids, n.o.s. (potassium hydroxide, sodium metasilicate)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II
ERG Code	8L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (potassium hydroxide, sodium metasilicate)
Transport hazard class(es)	
Class	8
01033	5

Subsidiary risk	-
Packing group	П
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
15. Regulatory information	ı

US federal regulations	Standard, 29 CFR 191	ardous Chemical" as defined by the OSHA Hazard Communication 10.1200. In the U.S. EPA TSCA Inventory List.
TSCA Section 12(b) Export		
Not regulated. SARA 304 Emergency relea	ase notification	
Not regulated. OSHA Specifically Regulate	ed Substances (29 CFR	1910.1001-1052)
Not regulated. US EPCRA (SARA Title III) \$	Section 313 - Toxic Che	mical: Listed substance
Not regulated. CERCLA Hazardous Substa	ance List (40 CFR 302.4)
potassium hydroxide (CA CERCLA Hazardous Substa		Listed. Itity
potassium hydroxide (CA	AS 1310-58-3)	1000 LBS
		edient at or above its RQ require immediate notification to the National cal Emergency Planning Committee.
Other federal regulations		
Clean Air Act (CAA) Sectior	n 112 Hazardous Air Po	llutants (HAPs) List
Not regulated.		
	n 112(r) Accidental Rele	ease Prevention (40 CFR 68.130)
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
Food and Drug Administration (FDA)	Not regulated.	
Superfund Amendments and Re	eauthorization Act of 19	986 (SARA)
Classified hazard categories	Corrosive to metal Acute toxicity (any rou Skin corrosion or irrita Serious eye damage o Specific target organ to	tion
SARA 302 Extremely hazard Not listed.	dous substance	
SARA 313 (TRI reporting) Not regulated.		
US state regulations		
US. New Jersey Worker and	d Community Right-to-ł	Know Act
dipropylene glycol monor potassium hydroxide (CA US. Massachusetts RTK - S	AS 1310-58-3))-94-8)
dipropylene glycol monor potassium hydroxide (CA)-94-8)
	and Community Right-to	o-Know Law
US. Pennsylvania Worker a		
US. Pennsylvania Worker a dipropylene glycol monor potassium hydroxide (CA)-94-8)
dipropylene glycol monor	AS 1310-58-3)	

potassium hydroxide (CA	S 1310-58-3)	
California Proposition 6		
	Cancer and Reproductive Harm - www.P65Warnings.ca.gov	
California Proposition 6	5 - CRT: Listed date/Carcinogenic substance	
formaldehyde (CAS	50-00-0) Listed: January 1, 1988	
-	5 - CRT: Listed date/Developmental toxin	
methanol (CAS 67-56		
Volatile organic compounds (VC	C) regulations	
EPA	0.9.9/ (at minimum dilution)	
VOC content (40 CFR 51.100(s))	0.8 % (at minimum dilution)	
	8.2 % (concentrate)	
Consumer products (40 CFR 59, Subpt. C)	Not regulated	
State		
Consumer products	This product is regulated as a General Purpose Degreaser (non-aerosol) compliant for use in all 50 states.). This product is
VOC content (CA)	0.4 % (at minimum dilution) 4 % (concentrate)	
VOC content (OTC)	0.4 % (at minimum dilution) 4 % (concentrate)	
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Toxic Chemical Substances (TCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
	ents of this product comply with the inventory requirements administered by the go components of the product are not listed or exempt from listing on the inventory ad	

A res 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	02-02-2015
Revision date	04-03-2018
Prepared by	Allison Yoon
Version #	02
Further information	CRC # 433E/1002414
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Revision information	This document has undergone significant changes and should be reviewed in its entirety.