# CRO

# SAFETY DATA SHEET

#### 1. Identification

Product identifier HydroForce® Industrial Strength Degreaser

Other means of identification

Product Code No. 14417 (Item# 1004973)

Recommended use General purpose degreaser

Recommended restrictions None known.

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 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

Physical hazardsCorrosive to metalsCategory 1Health hazardsAcute toxicity, inhalationCategory 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)

Category 3

Category 2 (respiratory system)

Specific target organ toxicity, repeated

exposure (inhalation)

Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements

**Environmental hazards** 



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.

Material name: HydroForce® Industrial Strength Degreaser

SDS US

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all Response

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.

Dispose of contents/container in accordance with local/regional/national regulations. Disposal

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

lixtures			
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.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact 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 treatment needed

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 ambulance. Continue flushing during transport to hospital. Keep victim warm. 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 fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire. Unsuitable extinguishing media

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.

Material name: HydroForce® Industrial Strength Degreaser

SDS US

#### 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.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. 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

Occupational	exposure	limits	

Components	Туре	Value	
dipropylene glycol monomethyl ether (CAS 34590-94-8)	PEL	600 mg/m3	
,		100 ppm	
US. ACGIH Threshold Limit Value	s		
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 Cher	nical 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	

Biological limit values No biological exposure limits noted for the ingredient(s).

#### **Exposure guidelines**

US - California OELs: Skin designation

dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

US - Tennessee OELs: Skin designation

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

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. 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

Wear protective gloves such as: Nitrile. Rubber. **Hand protection** 

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

General hygiene considerations

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** Liquid. Red. Color Pleasant. Odor **Odor threshold** Not available.

13.1

-112 °F (-80 °C) estimated Melting point/freezing point 212 °F (100 °C) estimated Initial boiling point and boiling

range

None. Flash point **Evaporation rate** Slow.

Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

1.1 % estimated

Flammability limit - upper

(%)

36 % estimated

18.4 hPa estimated Vapor pressure Vapor density Not available.

Relative density 1.09

Solubility(ies)

Soluble. Solubility (water)

SDS US

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 Aldehydes. Ketones. Organic acids.

products

# 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.

Product Species Test Results

HydroForce® Industrial Strength Degreaser

Acute Dermal

LD50 Rabbit 2113.2 mg/kg calculated

Inhalation

LC50 Rat 17.7 mg/l, 4 hours calculated

Oral

LD50 Rat 4602.4 mg/kg calculated

Components Species Test Results

alcohols, C12-15, ethoxylated (CAS 68131-39-5)

Acute Dermal

LD50 Rabbit < 5000 mg/kg

Oral

LD50 Rat 1600 - 2700 mg/kg

dipropylene glycol monomethyl ether (CAS 34590-94-8)

**Acute** 

Dermal

LD50 Rabbit 9510 mg/kg

Inhalation

LC50 Rat 552 ppm

Oral LD50

Rat 5135 mg/kg

Material name: HydroForce® Industrial Strength Degreaser

No. 14417 (Item# 1004973) Version #: 02 Revision date: 04-03-2018 Issue date: 04-03-2018

Components Species Test Results

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

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat > 3356 mg/kg

tetrasodium ethylenediaminetetraacetate (CAS 64-02-8)

Acute Oral

LD50 Rat > 2000 mg/kg

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/eye

e/eye Causes serious eye damage.

irritation

Respiratory or skin sensitization

**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 Regulated 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

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Components Species Test Results

alcohols, C12-15, ethoxylated (CAS 68131-39-5)

**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

Components Species Test Results

dioctyl sodium sulfosuccinate (CAS 577-11-7)

**Aquatic** 

Fish LC50 Rainbow trout, donaldson trout 20 - 40 mg/l, 96 hours

(Oncorhynchus mykiss)

dipropylene glycol monomethyl ether (CAS 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 (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

sodium xylenesulphonate (CAS 1300-72-7)

**Aquatic** 

Acute

Crustacea EC50 Water flea (Daphnia magna) > 1020 mg/l, 48 hours

tetrasodium ethylenediaminetetraacetate (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

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

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

Hazardous waste code D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

**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.

**Disposal instructions** If discarded, this product is considered a RCRA corrosive waste, D002. Collect and reclaim or

dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used

container. Dispose in accordance with all applicable regulations.

14. Transport information

DOT

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 ||

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

IATA

UN1760 **UN number** 

Corrosive liquids, n.o.s. (potassium hydroxide, sodium metasilicate) **UN proper shipping name** 

Transport hazard class(es)

8 Class Subsidiary risk Ш Packing group 8L **ERG Code** 

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 UN1760

**UN** proper shipping name CORROSIVE LIQUID, N.O.S. (potassium hydroxide, sodium metasilicate)

Transport hazard class(es)

8 Class Subsidiary risk Ш **Packing group 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

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication US federal regulations

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

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

Not regulated.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

potassium hydroxide (CAS 1310-58-3) Listed.

**CERCLA Hazardous Substances: Reportable quantity** 

potassium hydroxide (CAS 1310-58-3) 1000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

Food and Drug Not regulated.

Administration (FDA)

No. 14417 (Item# 1004973) Version #: 02 Revision date: 04-03-2018 Issue date: 04-03-2018

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

Classified hazard Corrosive to metal

categories Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 313 (TRI reporting)

Not regulated.

#### **US** state regulations

#### US. New Jersey Worker and Community Right-to-Know Act

dipropylene glycol monomethyl ether (CAS 34590-94-8) potassium hydroxide (CAS 1310-58-3)

#### **US. Massachusetts RTK - Substance List**

dipropylene glycol monomethyl ether (CAS 34590-94-8)

potassium hydroxide (CAS 1310-58-3)

### US. Pennsylvania Worker and Community Right-to-Know Law

dipropylene glycol monomethyl ether (CAS 34590-94-8) potassium hydroxide (CAS 1310-58-3)

#### **US. Rhode Island RTK**

dipropylene glycol monomethyl ether (CAS 34590-94-8) potassium hydroxide (CAS 1310-58-3)

#### **California Proposition 65**



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

# California Proposition 65 - CRT: Listed date/Carcinogenic substance

formaldehyde (CAS 50-00-0) Listed: January 1, 1988

#### California Proposition 65 - CRT: Listed date/Developmental toxin

methanol (CAS 67-56-1) Listed: March 16, 2012

#### Volatile organic compounds (VOC) regulations

**EPA** 

VOC content (40 CFR

0.8 % (at minimum dilution)

51.100(s))

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). This product is

compliant for use in all 50 states.

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

Country(s) or region Inventory name On inventory (yes/no)\*

New Zealand New Zealand Inventory No

Philippines Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

Taiwan Toxic Chemical Substances (TCS)

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 date04-03-2018Revision date04-03-2018Prepared byAllison Yoon

Version # 02

Further information CRC # 433E/1002414

**Disclaimer** The information contained in this document applies to this specific material as supplied. It may not

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industries, Inc..

Material name: HydroForce® Industrial Strength Degreaser

No. 14417 (Item# 1004973) Version #: 02 Revision date: 04-03-2018 Issue date: 04-03-2018 10 / 10