CRC

SAFETY DATA SHEET

1. Identification

Product identifier On & Off Hull & Bottom Cleaner - 55 gal

Other means of identification

Product Code No. MK20550 (Item# 1007570)

Recommended use Cleaner for fiberglass hulls

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)

Website www.crcindustries.com

2. Hazard(s) identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 1B

Skin corrosion/irritation Category 1E
Serious eye damage/eye irritation Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Category 2

Category 3

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage.

May cause respiratory irritation. Toxic to aquatic life. Harmful to aquatic life with long lasting

effects.

Precautionary statement

Prevention Do not breathe mist or 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. 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. Absorb spillage to prevent material

damage.

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Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive Storage

resistant container.

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal

corrosive gases such as hydrogen chloride and possibly phosgene.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
water		7732-18-5	70 - < 80
hydrochloric acid		7647-01-0	10 - < 20
phosphoric acid		7664-38-2	5 - < 10
alcohols, C12-15, ethoxylated		68131-39-5	1 - < 3
oxalic acid		144-62-7	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. If person is not

breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. If respiratory irritation, dizziness, or unconsciousness occurs, seek immediate medical

assistance. Call a POISON CENTER or doctor/physician if you feel unwell.

Take off immediately all contaminated clothing. Wash with soap and plenty of water for 15 Skin contact

minutes. 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.

Call a physician or poison control center immediately. Drink 1 or 2 glasses of water. Rinse mouth. Ingestion Do not induce vomiting without advice from poison control center. Never give anything by mouth to

a victim who is unconscious or is having convulsions. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Probable mucosal damage may contraindicate the use

of gastric lavage.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

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. May cause respiratory irritation.

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. Show this safety data sheet to the doctor in attendance.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Fire fighting

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters Do not use water jet as an extinguisher, as this will spread the fire.

When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

equipment/instructions

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 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. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Should not be released into the environment.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Neutralize with sodium carbonate or absorb on fire retardant material. 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. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage

Precautions for safe handling

Never use with chlorine products. Can react to give chlorine gas. Never use or mix with other cleaners or chemicals. Do not use on any surface that can be damaged by acid materials. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. Use care in handling/storage. 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. 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	
hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
oxalic acid (CAS 144-62-7)	PEL	1 mg/m3	
phosphoric acid (CAS 7664-38-2)	PEL	1 mg/m3	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	
hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm	
oxalic acid (CAS 144-62-7)	STEL	2 mg/m3	
	TWA	1 mg/m3	
phosphoric acid (CAS 7664-38-2)	STEL	3 mg/m3	
	TWA	1 mg/m3	
US. NIOSH: Pocket Guide to Chemi	ical Hazards		
Components	Туре	Value	
hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
oxalic acid (CAS 144-62-7)	STEL	2 mg/m3	
	TWA	1 mg/m3	
phosphoric acid (CAS 7664-38-2)	STEL	3 mg/m3	
	TWA	1 mg/m3	

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

Biological limit values

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

Wear safety glasses with side shields (or goggles) and a face shield. Eye/face protection

Skin protection

Hand protection Wear protective gloves such as: Neoprene. Latex.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a Respiratory protection

> NIOSH-approved cartridge respirator with an acid gas 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

Keep away from food and drink. 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. Liquid. **Form** Color White. Acid. Odor

Not available. **Odor threshold**

< 1

< 0 °F (< -17.8 °C) Melting point/freezing point Initial boiling point and boiling 185 °F (85 °C)

range

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

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

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

15.9 hPa estimated Vapor pressure Not available. Vapor density

1.16 Relative density

Solubility(ies)

Solubility (water) Completely soluble.

Partition coefficient (n-octanol/water)

Not available.

Not available.

Auto-ignition temperature Not available. **Decomposition temperature** Not available. **Viscosity** Percent volatile 67.4 % estimated

10. Stability and reactivity

Reacts violently with strong alkaline substances. This product may react with reducing agents. May Reactivity

be corrosive to metals.

Material is stable under normal conditions. Chemical stability

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Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Do not mix with other chemicals. Contact with incompatible materials. When exposed to extreme Conditions to avoid

heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen

chloride and possibly phosgene.

Incompatible materials

Chlorine. Alkalies. Strong oxidizing agents. Reducing agents. Metals. Amines.

Hazardous decomposition

products

Hydrogen chloride. Phosgene.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns. Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns. Harmful if swallowed.

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. May cause respiratory irritation.

Information on toxicological effects

In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and **Acute toxicity**

central nervous system effects. Harmful if swallowed. May cause respiratory irritation.

Product Species Test Results

On & Off Hull & Bottom Cleaner - 55 gal

Acute

Dermal

LD50 Rabbit > 2000 mg/kg calculated

Inhalation

LC50 Rat > 20 mg/l, 4 hours calculated

Oral

LD50 Rat > 930 mg/kg calculated

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

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Not available. Respiratory sensitization

This product is not expected to cause skin sensitization. Skin sensitization

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

hydrochloric acid (CAS 7647-01-0) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not expected to be an aspiration hazard. **Chronic effects** Prolonged inhalation may be harmful.

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

12. Ecological information

Ecotoxicity

Toxic to aquatic life. Harmful to aquatic life with long lasting effects. Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Product		Species	Test Results
On & Off Hull & Bottor	n Cleaner - 55 gal		
Aquatic			
Acute			
Crustacea	EC50	Daphnia	14.7335 mg/l, 48 hours estimated
Fish	LC50	Fish	99.4512 mg/l, 96 hours estimated
Components		Species	Test Results

Aquatic

Acute

EC50 Crustacea

Water flea (Daphnia magna)

0.4 - 0.75 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) 2.7 mg/l, 96 hours

hydrochloric acid (CAS 7647-01-0)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) 282 mg/l, 96 hours

oxalic acid (CAS 144-62-7)

Aquatic

Crustacea EC50 Water flea (Daphnia magna)

125 - 150 mg/l, 48 hours

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential No data available. No data available. Mobility in soil

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

This material and its container must be disposed of as hazardous waste. Collect and reclaim or **Disposal instructions**

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.

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.

14. Transport information

DOT

UN3264 **UN number**

Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric Acid RQ = 31373 LBS, Phosphoric Acid **UN proper shipping name**

RQ = 94118 LBS)

Transport hazard class(es)

Class 8 Subsidiary risk 8 Label(s) Packing group Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

B2, IB2, T11, TP2, TP27 Special provisions

Packaging exceptions 154 Packaging non bulk 202 Packaging bulk 242

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

IATA

Not permitted for shipment by air.

IMDG

UN number UN3264

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric Acid, Phosphoric Acid) UN proper shipping name

Transport hazard class(es)

Class 8 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.

DOT



IMDG



15. Regulatory information

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

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 1910.1001-1053)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

hydrochloric acid (CAS 7647-01-0) phosphoric acid (CAS 7664-38-2)

CERCLA Hazardous Substances: Reportable quantity

hydrochloric acid (CAS 7647-01-0) 5000 LBS phosphoric acid (CAS 7664-38-2) 5000 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

hydrochloric acid (CAS 7647-01-0)

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

Not regulated.

Safe Drinking Water Act No.

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

hydrochloric acid (CAS 7647-01-0)

6545

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

hydrochloric acid (CAS 7647-01-0)

20 %WV

DEA Exempt Chemical Mixtures Code Number

hydrochloric acid (CAS 7647-01-0)

6545

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

phosphoric acid (CAS 7664-38-2)

High priority

Food and Drug

Not regulated.

Administration (FDA)

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

Chemical name

CAS number

Reportable quantity (pounds)

Threshold planning quantity (pounds)

Threshold planning quantity, lower value (pounds)

Threshold planning quantity, upper value

(pounds)

hydrochloric acid

7647-01-0 **s** Yes 5000

500

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name

CAS number

% by wt.

hydrochloric acid 7647-01-0

US state regulations

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

hydrochloric acid (CAS 7647-01-0)

oxalic acid (CAS 144-62-7)

phosphoric acid (CAS 7664-38-2)

US. Massachusetts RTK - Substance List

hydrochloric acid (CAS 7647-01-0) oxalic acid (CAS 144-62-7)

phosphoric acid (CAS 7664-38-2)

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

hydrochloric acid (CAS 7647-01-0)

oxalic acid (CAS 144-62-7)

phosphoric acid (CAS 7664-38-2)

US. Rhode Island RTK

hydrochloric acid (CAS 7647-01-0)

oxalic acid (CAS 144-62-7)

phosphoric acid (CAS 7664-38-2)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

hydrochloric acid (CAS 7647-01-0)

phosphoric acid (CAS 7664-38-2)

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR Not determined

51.100(s))

Consumer products Not regulated

(40 CFR 59, Subpt. C)

State

Consumer products Not regulated VOC content (CA) < 0.5 % VOC content (OTC) < 0.5 %

International Inventories

Country(s) or region

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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes

(PICCS)

Inventory name

TaiwanTaiwan Chemical Substance Inventory (TCSI)YesUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

Issue date 12-16-2019
Prepared by Dustin Kern

Version # 01

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..

Revision informationThis document has undergone significant changes and should be reviewed in its entirety.

On inventory (yes/no)*

^{*}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).