

SAFETY DATA SHEET

1. Identification

Product identifier	On & Off Gel Hull & Bottom Cleaner		
Other means of identification			
Product Code	No. MK3532 (Item# 1007600)		
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 (CHEMTREC)	800-424-9300 (US)		
Website	www.crcindustries.com		
2. Hazard(s) identification			
	Corrosive to metals	Catagony 1	
Physical hazards		Category 1	
Health hazards	Acute toxicity, oral	Category 4	
	Skin corrosion/irritation	Category 1B	
	Serious eye damage/eye irritation	Category 1	
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2	
	Hazardous to the aquatic environment, long-term hazard	Category 3	
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. Causes serious eye damage. May cause respiratory irritation. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.		
Precautionary statement			
Prevention	Keep only in original container. 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. Call a poison center/doctor if you feel unwell. 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. Absorb spillage to prevent material damage.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.
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	80 - 90
hydrochloric acid		7647-01-0	10 - 20
phosphoric acid		7664-38-2	3 - 5
oxalic acid		144-62-7	1 - 3
tallow alkyl amines, ethoxylated		61791-26-2	1 - 3

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures		
Inhalation	If breathing is difficult, remove 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.	
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. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. 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	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.	
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 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).	
Unsuitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fire.	

media	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.
Special protective equipment	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special protective equipment and precautions for firefighters

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 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. Should not be released into the environment. 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. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. 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. 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. Store in tightly closed container. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS).	

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

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 Chemic	cal 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	

Biological limit values	No biological exposure limits noted for the ingredient(s).	
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) and a face shield.	
Skin protection		
Hand protection	Wear protective gloves such as: Latex. Neoprene.	
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 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.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
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.
Color	Blue green.
Odor	Cherry. Acid.
Odor threshold	Not available.
рН	< 1
Melting point/freezing point	< 0 °F (< -17.8 °C)
Initial boiling point and boiling range	195 °F (90.6 °C)
Flash point	None.
Evaporation rate	Similar to water.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	19.3 hPa estimated
Vapor density	Not available.
Relative density	1.08
Solubility(ies)	
Solubility (water)	100 % Soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Percent volatile	84 % estimated

Reactivity

Reacts violently with strong alkaline substances. This product may react with reducing 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	Temperatures above 50 °C or below 10 °C. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as Hydrogen chloride and Phosgene. Do not mix with other chemicals. Contact with incompatible materials.
Incompatible materials	Bases. Strong oxidizing agents. Reducing agents. Metals. Bleach.
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

Acute	toxicity

In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Harmful if swallowed. May cause respiratory irritation.

Product	Species	Test Results
On & Off Gel Hull & Bottom Clear	ner	
<u>Acute</u>		
Inhalation		
LC50	Rat	> 20 mg/l, 4 hours
Components	Species	Test Results
hydrochloric acid (CAS 7647-01-0))	
<u>Acute</u>		
Dermal		
LD50	Mouse	1449 mg/kg
phosphoric acid (CAS 7664-38-2))	
<u>Acute</u>		
Dermal		
LD50	Rabbit	2740 mg/kg
tallow alkyl amines, ethoxylated (CAS 61791-26-2)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 10000 mg/kg
* Estimates for product may I	be based on additional component d	ata not shown.
Skin corrosion/irritation	Causes severe skin burns and ey	re 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 ca	ause 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	
hydrochloric acid (CAS 7		Not classifiable as to carcinogenicity to humans.
	ed Substances (29 CFR 1910.1001	-1052)
Not regulated.		

US. National Toxicology Pro Not listed.	ogram (NTP) Report on Carcinogens
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.

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.

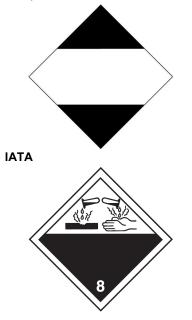
Product	Ũ	Species	Test Results	
On & Off Gel Hull & Bottom	Cleaner			
Aquatic				
Fish	LC50	Fish	145.6517 mg/l, 96 hours estimated	
Acute				
Algae	IC50	Algae	5.0001 mg/l, 72 hours estimated	
Crustacea	EC50	Daphnia	8.5 mg/l, 48 hours estimated	
Components		Species	Test Results	
hydrochloric acid (CAS 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	
tallow alkyl amines, ethoxyla	ted (CAS 61791-	26-2)		
Aquatic				
Fish	LC50	Fathead minnow (Pimephales promelas)	1 mg/l, 96 hours	
Acute				
Algae	IC50	Algae	0.1 - 1 mg/l, 72 hours	
Crustacea	EC50	Water flea (Daphnia magna)	0.17 mg/l, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.13 mg/l, 96 hours	
rsistence and degradability	No data is ava	ailable on the degradability of any ingredier	nts in the mixture.	
accumulative potential	No data availa	No data available.		
bility in soil	No data availa	No data available.		
ner 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.		
B. Disposal consideration	ons			
posal instructions	dispose in sea	This material and its container must be disposed of as hazardous waste. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.		
zardous waste code	D002: Waste	Corrosive material [pH <=2 or =>12.5, or c	corrosive to steel]	
ntaminated packaging		d containers may retain product residue, fol ty containers should be taken to an approv		

14. Transport information

UN number

UN prope	er shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (hydrochloric acid RQ = 44643 LBS, phosphoric acid RQ = 135135 LBS), Limited Quantity
Transpor	t hazard class(es)	
Class	S	8
Subs	idiary risk	-
Labe	l(s)	8
Packing g	group	
Special p	recautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special p	orovisions	B2, IB2, T11, TP2, TP27
Packagin	g exceptions	154
Packagin	ig non bulk	202
Packagin	g bulk	242
ΙΑΤΑ		
UN numb	er	UN3264
UN prope	er shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (hydrochloric acid, phosphoric acid)
Transpor	t hazard class(es)	
Class	S	8
Subs	idiary risk	-
Packing g	group	П
ERG Cod	le	8L
Special p	recautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other info	ormation	
	enger and cargo	Allowed with restrictions.
aircra		
-	o aircraft only	Allowed with restrictions.
IMDG		
UN numb		UN3264
UN prope	er shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrochloric acid, phosphoric acid), Limited Quantity
Transpor	t hazard class(es)	
Class	S	8
Subs	idiary risk	-
Packing g	group	II
	nental hazards	
Marin	ne pollutant	No
EmS	•	F-A, S-B
Special p	recautions for user	Read safety instructions, SDS and emergency procedures before handling.
• •		

DOT; IMDG



1910.1200. 707, Subpt. FR 1910.100 Chemical: Lis NCLUDING M 2.4) Jantity gredient at or Local Emerge Pollutants (I Release Preve ist 2, Essenti ist 1 & 2 Exer ber	. D) 1.0 % One-Time E 5000 LBS 1-1052) sted substance /ISTS, VAPORS, 4 Listed. Listed. 5000 LBS r above its RQ req ency Planning Co HAPs) List rention (40 CFR 6 cial Chemicals (21 6545		R AIRBORNE FORM
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Ith and Safe	ty in the Flavor M	lanufacturing Workpla	се
ł	High priority		
f 1986 (SARA	A)		
Corrosive to metal Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation			
in toxicity (sin	ngle or repeated e	xposure)	
wich T	rechald	Threaded	Thrackeld
ntity pla	anning quantity	planning quantity, lower value (pounds)	Threshold planning quantity upper value (pounds)
500	0		
CAS n	umber	% by wt.	
		10 - 20	
	route of expo ritation ge or eye irrit an toxicity (sin ortable Th ntity plands) (p 50 CAS n	route of exposure) ritation ge or eye irritation an toxicity (single or repeated e ortable Threshold ntity planning quantity nds) (pounds)	route of exposure) ritation ge or eye irritation an toxicity (single or repeated exposure) ortable Threshold ntity planning quantity nds) (pounds) Threshold planning quantity, lower value (pounds) 500 CAS number % by wt.

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 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

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

< 0.5 %
Not regulated

State

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

International Inventories

Country(s) or region	Inventory name On in	ventory (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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all compo	prents of this product comply with the inventory requirements administered by the governing c	ountrv(s)

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

06-11-2015

Revision date Prepared by Version #	11-07-2018 Allison Yoon 02
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 information	This document has undergone significant changes and should be reviewed in its entirety.