# SAFETY DATA SHEET

#### 1. Identification

**Product identifier Rust Remover** 

Other means of identification

Product code 18420, 18421 Recommended use Rust removal Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

CRC Industries, Inc. Company name

**Address** 885 Louis Dr.

Warminster, PA 18974 US

Telephone

**General Information** 215-674-4300 **Technical** 800-521-3168

**Assistance** 

800-272-4620 **Customer Service** 24-Hour Emergency 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International) Website www.crcindustries.com

# 2. Hazard(s) identification

**Physical hazards** Not classified.

Serious eye damage/eye irritation Category 1 Health hazards

> Specific target organ toxicity, repeated Category 1

exposure

**Environmental hazards** Hazardous to the aquatic environment, acute Category 3

hazard

**OSHA** defined hazards Not classified.

Label elements





Signal word Danger

**Hazard statement** Causes serious eye damage. Causes damage to organs (thyroid glands) through prolonged or

repeated exposure. Harmful to aquatic life.

**Precautionary statement** 

Prevention Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air

supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye/face protection. Avoid

release to the environment.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Immediately call a poison center/doctor.

**Storage** Store away from incompatible materials.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

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# Supplemental information

8.3% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

# 3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	75 - 85
Uronium hydrogen sulphate		21351-39-3	5 - 10
Potassium iodide		7681-11-0	< 1

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. Call a physician if symptoms develop or persist.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most important symptoms/effects, acute and delayed	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. 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 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.
General fire hazards	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

**Environmental precautions** 

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.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. 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.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

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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

Provide adequate ventilation. Do not breathe mist or vapor. Do not get this material in contact with eyes. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment. Use care in handling/storage. For product usage instructions, please see the product label.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

Components	Туре	Value	Form
Potassium iodide (CAS 7681-11-0)	TWA	0.01 ppm	Inhalable fraction and vapor.

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. Provide eyewash station.

Individual protection measures, such as personal protective equipment

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

Skin protection

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

Other Wear suitable protective 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. Color Pale yellow.

Odor Mild.

**Odor threshold** Not available.

0.5 - 1

Melting point/freezing point 32 °F (0 °C) estimated

Initial boiling point and boiling

range

212 °F (100 °C)

None (Tag Closed Cup) 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.

Vapor pressure 22.6 hPa estimated

Material name: Rust Remover SDS US Vapor density Not available.

Relative density 1.05
Solubility (water) Complete.
Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity (kinematic)

Percent volatile

Not available.

Not available.

86.4 % estimated

## 10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

Conditions to avoid

No dangerous reaction known under conditions of normal use.

Heat. Do not mix with other chemicals. Contact with incompatible materials.

Incompatible materials Strong acids. Bases. Reducing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

**Inhalation** May cause damage to organs through prolonged or repeated exposure by inhalation.

**Skin contact** Prolonged skin contact may cause temporary irritation.

**Eye contact** Causes serious eye damage.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

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 Not classified.

Product Species Test Results

Rust Remover

Acute Oral

LD50 Rat 52667 mg/kg estimated

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye damage.

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

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not available.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not available.

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

Specific target organ toxicity -

single exposure

Not classified.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Specific target organ toxicity -

repeated exposure

Causes damage to organs (thyroid glands) through prolonged or repeated exposure.

**Aspiration hazard** 

Not an aspiration hazard.

**Chronic effects** Causes damage to organs through prolonged or repeated exposure.

# 12. Ecological information

Ecotoxicity Harmful to aquatic life. Because of the low pH of this product, it would be expected to produce

significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Components Species Test Results

Potassium iodide (CAS 7681-11-0)

Aquatic

Fish LC50 Rainbow trout, donaldson trout 896 mg/l, 96 hours

(Oncorhynchus mykiss)

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

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

Disposal of waste from residues / unused products

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.

Hazardous waste code

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

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

# 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard. 29 CFR 1910.1200.

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

Not regulated

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

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

Not listed.

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

Not listed.

**CERCLA Hazardous Substances: Reportable quantity** 

Not listed.

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.

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Yes

Section 311/312 Immediate Hazard - Yes
Hazard categories Delayed Hazard - Yes
Fire Hazard - No

Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

#### **US** state regulations

#### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

**US. Massachusetts RTK - Substance List** 

None

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

Not listed.

**US. Rhode Island RTK** 

None

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

Not listed.

**US. 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.

#### Volatile organic compounds (VOC) regulations

**EPA** 

VOC content (40 CFR 0.1 %

51.100(s))

Consumer products Not regulated

(40 CFR 59, Subpt. C)

State

VOC content (CA)

VOC content (CA)

VOC content (OTC)

0.1 %

#### **International Inventories**

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

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

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date05-01-2014Revision date10-26-2015Prepared byAllison Cho

Version # 03

Further information CRC # 930A

HMIS® ratings Health: 3
Flammability: 0
Physical hazard: 0
Personal protection: D

NFPA ratings Health: 3 Flammability: 0

Instability: 0

NFPA ratings



**Disclaimer** 

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