# SAFETY DATA SHEET

# 1. Identification

**Product identifier Contact Cleaner & Protectant** 

Other means of identification

Product code 03140

Contact cleaner and protectant Recommended use

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 Flammable aerosols Category 1

> Gases under pressure Liquefied gas Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2B

Reproductive toxicity (fertility, the unborn

child)

Specific target organ toxicity, single exposure Category 3 narcotic effects

Category 2

Category 2

Category 2

Aspiration hazard Category 1

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

hazard

Hazardous to the aquatic environment,

long-term hazard

**OSHA** defined hazards Not classified.

Label elements

**Health hazards** 



Signal word Danger

**Hazard statement** Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if

swallowed and enters airways. Causes skin irritation. Causes eye irritation. May cause

drowsiness or dizziness. Suspected of damaging fertility or the unborn child. Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

Material name: Contact Cleaner & Protectant 03140 Version #: 02 Revision date: 05-25-2016 Issue date: 10-03-2014

# **Precautionary statement**

# Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not apply while equipment is energized. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. 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. Avoid breathing mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid release to the environment.

#### Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. If exposed or concerned: Get medical attention. Collect spillage.

#### Storage

Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

# Disposal

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

# Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

#### Supplemental information

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

# 3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Naphtha (petroleum), hydrotreated light		64742-49-0	50 - 60
1,1-difluoroethane	HFC-152a	75-37-6	20 - 30
2-Methylpentane		107-83-5	10 - 20
Dimethylpolysiloxane		63148-62-9	3 - 5
n-Hexane		110-54-3	1 - 3
2,2-Dimethylbutane		75-83-2	< 0.2

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

sheet to the doctor in attendance.

# 4. First-aid measures

II I II OC AIA III OAOAI OO		
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a PC CENTER or doctor/physician if you feel unwell.	
Skin contact	Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. 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. Get medical attention if irritation develops and persists.	
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	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain.	
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	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware	

of the material(s) involved, and take precautions to protect themselves. Show this safety data

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# 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may rupture when exposed to heat or flame. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions General fire hazards

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Remove all possible sources of ignition in the surrounding area. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. 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

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Prevent product from entering drains. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. 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. Use appropriate containment to avoid environmental contamination.

# 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. These alone may be insufficient to remove static electricity. 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	
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3	
		500 ppm	
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	
2,2-Dimethylbutane (CAS 75-83-2)	STEL	1000 ppm	
	TWA	500 ppm	
2-Methylpentane (CAS 107-83-5)	STEL	1000 ppm	
	TWA	500 ppm	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	
2,2-Dimethylbutane (CAS 75-83-2)	Ceiling	1800 mg/m3	
		510 ppm	
	TWA	350 mg/m3	
		100 ppm	
2-Methylpentane (CAS 107-83-5)	Ceiling	1800 mg/m3	
		510 ppm	
	TWA	350 mg/m3	
		100 ppm	
n-Hexane (CAS 110-54-3)	TWA	180 mg/m3	
		50 ppm	
US. AIHA Workplace Environmen	tal Exposure Level (WEEL) Gu	des	
Components	Туре	Value	
1,1-difluoroethane (CAS 75-37-6)	TWA	2700 mg/m3	

#### **Biological limit values**

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedio n, without hydrolysis	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

US - California OELs: Skin designation

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

n-Hexane (CAS 110-54-3) 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. 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: Nitrile. Polyvinyl chloride (PVC). Viton®.

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.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. 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 Aerosol.

Color Clear. Water-white.

Odor Mild solvent.
Odor threshold Not available.
pH Not available.

Melting point/freezing point -244.7 °F (-153.7 °C) estimated Initial boiling point and boiling 118.4 °F (48 °C) estimated

range

Flash point < 0 °F (< -17.8 °C) Tag Closed Cup

8 % estimated

Evaporation rate Moderate.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower 1 % estimated

(%)

o)

Flammability limit - upper (%)

Vapor pressure 2178.3 hPa estimated

Vapor density> 1 (air = 1)Relative density0.73 estimatedSolubility (water)Negligible.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperature 437 °F (225 °C) estimated

Decomposition temperatureNot available.Viscosity (kinematic)Not available.Percent volatile96.9 % estimated

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, flames and sparks. When exposed to extreme heat or hot surfaces, vapors may decompose

to harmful or fatal corrosive gases such as hydrogen fluoride. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Acids.

Hazardous decomposition

products

Carbon oxides. Nitrogen oxides (NOx). Hydrogen fluoride.

# 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation. Eve contact Causes eye irritation.

Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious Ingestion

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing,

redness, and discomfort. Skin irritation. May cause redness and pain.

#### Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects.

**Product Species Test Results** 

Contact Cleaner & Protectant

**Acute Dermal** 

LD50 Rabbit 3448 mg/kg estimated

Inhalation

LC50 Rat 55672 ppm, 4 hours estimated

52 mg/l estimated

Oral

LD50 Rat 6667 mg/kg estimated

Causes skin irritation. Skin corrosion/irritation Serious eye damage/eye Causes eye irritation.

irritation

Not a respiratory sensitizer.

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

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

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

Not listed.

Respiratory sensitization

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Not regulated.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure: Nervous system. Upper

respiratory tract. Skin. Eyes.

May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vomiting, Aspiration hazard

may cause chemical pneumonia, pulmonary injury or death.

**Chronic effects** Prolonged inhalation may be harmful.

Overexposure to n-hexane may cause progressive and potentially irreversible damage to the

peripheral nervous system, particularly in the arms and legs.

# 12. Ecological information

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

**Test Results** Components **Species** 

Dimethylpolysiloxane (CAS 63148-62-9)

Aquatic

LC50 Fish Channel catfish (Ictalurus punctatus) 2.36 - 4.15 mg/l, 96 hours

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

**Species Test Results** Components

n-Hexane (CAS 110-54-3)

**Aquatic** 

Fish LC50 Fathead minnow (Pimephales promelas) 2.101 - 2.981 mg/l, 96 hours

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

1,1-difluoroethane 0.75 2,2-Dimethylbutane 3.82 3.74 2-Methylpentane 3.9 n-Hexane

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 ignitable waste, D001. 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. Contents under pressure. Do not puncture, incinerate or crush. Dispose in accordance with all applicable regulations.

Hazardous waste code

D001: Waste Flammable material with a flash point <140 F

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

UN1950 **UN** number

**UN proper shipping name** 

Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

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

2.1

N82 Special provisions Packaging exceptions 306 None Packaging non bulk Packaging bulk None

**IATA** 

UN1950 **UN** number

Aerosols, flammable, Limited Quantity **UN proper shipping name** 

Transport hazard class(es)

2.1 Class Subsidiary risk

Packing group Not applicable.

**ERG Code** 10L

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

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Other information

Allowed with restrictions.

**IMDG** 

**UN** number UN1950

**UN** proper shipping name Transport hazard class(es) AEROSOLS, LIMITED QUANTITY

Class

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

Subsidiary risk

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No. EmS F-D, S-U

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

# 15. Regulatory information

**US** federal regulations

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

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.

SARA 304 Emergency release notification

Not regulated.

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

Not regulated.

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

n-Hexane (CAS 110-54-3)

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

n-Hexane (CAS 110-54-3) Listed.

**CERCLA Hazardous Substances: Reportable quantity** 

n-Hexane (CAS 110-54-3) 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.

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

n-Hexane (CAS 110-54-3)

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

1,1-difluoroethane (CAS 75-37-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely No hazardous substance

**US** state regulations

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

(a))

Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

n-Hexane (CAS 110-54-3)

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

Not listed.

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

2-Methylpentane (CAS 107-83-5)

1,1-difluoroethane (CAS 75-37-6)

n-Hexane (CAS 110-54-3)

**US. Massachusetts RTK - Substance List** 

1,1-difluoroethane (CAS 75-37-6)

2-Methylpentane (CAS 107-83-5)

n-Hexane (CAS 110-54-3)

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

2-Methylpentane (CAS 107-83-5) n-Hexane (CAS 110-54-3)

#### US. Rhode Island RTK

1,1-difluoroethane (CAS 75-37-6) n-Hexane (CAS 110-54-3)

#### **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

51.100(s))

Consumer products (40 CFR 59, Subpt. C)

Not regulated

**State** 

Consumer products This product is regulated as an Electronic Cleaner. This product is compliant for use in all 50

states.

71.9 %

**VOC content (CA)** 71.9 % **VOC content (OTC)** 71.9 %

#### **International Inventories**

Yes Yes
No
Yes
No
No
Yes
Yes
Yes
Yes

<sup>\*</sup>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).

Toxic Substances Control Act (TSCA) Inventory

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

Issue date10-03-2014Revision date05-25-2016Prepared byAllison Cho

Version # 02

United States & Puerto Rico

Further information CRC # 460-460A

HMIS® ratings Health: 2\*

Flammability: 4 Physical hazard: 0 Personal protection: B

NFPA ratings Health: 2

Flammability: 4 Instability: 0

NFPA ratings



Yes

# 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 Industries' 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.

#### **Revision Information**

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

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