# CRC.

# SAFETY DATA SHEET

# Section 1: Identification of the chemical and of the supplier

Product identifier CO Contact Cleaner

Other means of identification

Product code 2016M

Recommended use of the chemical and restrictions on use

Recommended use Not available.

Recommended restrictions None known.

**Details of principal suppliers** 

Manufacturer

Company name CRC Industries, Inc. Address 885 Louis Dr.

Warminster, PA 18974 US

Telephone

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

**Assistance** 

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

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

#### Section 2: Hazard identification

Physical hazards Flammable aerosols Category 1

Gases under pressure Compressed gas

Health hazards Skin corrosion or irritation Category 2

Specific target organ toxicity - single Category 3 narcotic effects

exposure

Aspiration hazard Category 1
Hazardous to the aquatic environment - Category 2

chronic hazard

Label elements

**Environmental 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. May cause drowsiness or dizziness. Toxic to

aquatic life with long lasting effects.

**Precautionary statement** 

Prevention 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. Avoid breathing mist or vapor. Avoid breathing gas. Use only outdoors or in a well-ventilated area. Wear

protective gloves. Wash thoroughly after handling. Avoid release to the environment.

Response IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce

vomiting. IF ON SKIN: Wash with plenty of soap and water. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Collect spillage.

**Storage** Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from

sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

# Section 3: Composition and information of the ingredients of the hazardous chemical

#### Mixtures

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Hazardous components			
Chemical name	Common name and synonyms	CAS number	%
Naphtha (petroleum), hydrotreated light		64742-49-0	>= 60
n-Hexane		110-54-3	3 - 5
2,2-Dimethylbutane		75-83-2	< 0.2
2-Methylpentane		107-83-5	< 0.2
Non-hazardous components			
Chemical name	Common name and synonyms	CAS number	%
Carbon dioxide		124-38-9	5 - 10

#### Section 4: First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

**Skin contact** Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Rinse with water. 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

symptoms/effects, acute and delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. 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** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# **Section 5: Fire-fighting measures**

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). None known.

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

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

During fire, gases hazardous to health may be formed.

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

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

HAZCHEM code

Specific methods

one

Use standard firefighting procedures and consider the hazards of other involved materials. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

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

exposed to fleat of flame

#### Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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. Avoid breathing gas. 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. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

# Personal precautions, protective equipment and emergency procedures

**Environmental precautions** 

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

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# 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. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: 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. Prevent entry into waterways, sewer, basements or confined areas.

# Section 7: Handling and storage

#### Precautions for safe handling

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. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing mist or vapor. Avoid breathing gas. Avoid contact with eyes, skin, and clothing. 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.

# Conditions for safe storage, including any incompatibilities

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. Secure cylinders in an upright position at all times, close all valves when not in use. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# Section 8: Exposure controls and personal protection

# Occupational exposure limits

Malaysia. OELs. (Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations)

Туре	Value	
TWA	1760 mg/m3	
	500 ppm	
TWA	1760 mg/m3	
	500 ppm	
TWA	9000 mg/m3	
	5000 ppm	
TWA	176 mg/m3	
	50 ppm	
Type	Value	
STEL	1000 ppm	
TWA	500 ppm	
STEL	1000 ppm	
TWA	500 ppm	
STEL	30000 ppm	
STEL TWA	30000 ppm 5000 ppm	
	TWA TWA TWA TWA Type STEL TWA STEL	TWA 1760 mg/m3  500 ppm 1760 mg/m3  500 ppm 1760 mg/m3  500 ppm 9000 mg/m3  5000 ppm 176 mg/m3 50 ppm  Type Value  STEL 1000 ppm  TWA 500 ppm  TWA 500 ppm  TWA 500 ppm

# **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**

Malaysia 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.

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# 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 must 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

Hand protection Wear protective gloves such as: Nitrile. Polyvinyl chloride (PVC). Viton®.

Other Wear appropriate chemical resistant clothing.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

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

General hygiene considerations

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.

# Section 9: Physical and chemical properties

#### **Appearance**

Physical state Liquid.
Form Aerosol.

Color Clear. Colorless.

Odor Not available.

Odor threshold Not available.

PH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling

ina

123 °F (50.6 °C) estimated

range

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

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

Flammability limit - lower

1.1 % estimated

(%)

Flammability limit - upper

7.3 % estimated

(%)

Explosive limit - lower (%) 1.1 % Explosive limit - upper (%) 7.3 %

Vapor pressure 3558.3 hPa estimated

Vapor density > 1 (air = 1)

Relative density 0.71 estimated

Solubility(ies)

Solubility (water) Negligible.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 489.2 °F (254 °C) estimated

**Decomposition temperature** Not available. **Viscosity** Not available.

# Section 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. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

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# **Section 11: Toxicological information**

# Information on likely routes of exposure

**Inhalation** May cause drowsiness and dizziness. Headache. Nausea, vomiting.

**Skin contact** Causes skin irritation.

**Eye contact** Direct contact with eyes may cause temporary irritation.

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

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Aspiration may cause

pulmonary edema and pneumonitis. 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
CO Contact Cleaner		
<u>Acute</u>		
Dermal		
LD50	Rabbit	2119 mg/kg estimated
Inhalation		
LC50	Rat	21193 ppm, 4 hours estimated
		21 mg/l, 4 hours estimated
Oral		
LD50	Rat	15895 mg/kg estimated

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

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory sensitization Not available.

**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

IARC Monographs. Overall Evaluation of Carcinogenicity

Not available.

US NTP Report on Carcinogens: Anticipated carcinogen

Not available.

US NTP Report on Carcinogens: Known carcinogen

Not available.

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

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** May be fatal if swallowed and enters airways.

# **Section 12: Ecological information**

Ecotoxicity	Toxic to aquatic life with long lasting effects.		
Product	Species		Test Results
CO Contact Cleaner			
Aquatic			
Fish	LC50	Fish	1219.6779 mg/l, 96 hours estimated

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

n-Hexane (CAS 110-54-3)

Aquatic

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

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

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

No data available. Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2,2-Dimethylbutane 3.82 2-Methylpentane 3.74 n-Hexane 3.9

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.

# **Section 13: Disposal information**

Disposal of waste from residues / unused products

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

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. Do not re-use empty containers.

# **Section 14: Transportation information**

#### **ADR**

UN1950 **UN** number

**UN proper shipping name** 

AEROSOLS, flammable, Limited Quantity

Transport hazard class(es)

2.1 Class Subsidiary risk 2.1 Label(s)

Not available. Hazard No. (ADR)

**Tunnel restriction code** D

Packing group Not applicable.

**Environmental hazards** 

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

RID

UN1950 **UN number** 

**UN** proper shipping name

Transport hazard class(es)

AEROSOLS, flammable, Limited Quantity

2.1 Class Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

**Environmental hazards** 

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

**IATA** 

UN1950 **UN** number

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

Transport hazard class(es)

2.1 Class Subsidiary risk

Packing group Not applicable.

**Environmental hazards** No. 10L **FRG Code** 

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

Other information

Passenger and cargo

aircraft

Allowed.

Allowed. Cargo aircraft only

#### **IMDG**

UN number UN1950

UN proper shipping name AEROSOLS, LIMITED QUANTITY

Transport hazard class(es)

Class 2 Subsidiary risk -

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No.

EmS Not available.

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

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

ADR; IATA; IMDG; RID



HAZCHEM code None

# **Section 15: Regulatory information**

Safety, health and environmental regulations specific for the product in question

Not established.

Active Ingredients of Pesticide Product (Pesticide Act 1974, First Schedule, as amended through October 1, 2004)

Not regulated.

CWC (Chemical Weapons Convention) Act 2005, Schedules 1-3, as amended through CWC Regulations 2007, October 5, 2007)

Not regulated.

Medical Surveillance Chemicals, Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000: Schedule 2

n-Hexane (CAS 110-54-3)

Ozone Depleting Substances (ODS) (Environmental Quality (Prohibition on the Use of CFC and Other Gases as Propellants and Blowing Agents) Order 1993, Dec. 31, 1993)

Not regulated.

Prohibited Use of Substances [Occupational Safety and Health (Prohibition of Use of Substance) Order 1999]

n-Hexane (CAS 110-54-3)

# International regulations

**Stockholm Convention** 

Not applicable.

**Rotterdam Convention** 

Not applicable.

**Montreal Protocol** 

Not applicable.

Kyoto protocol

Carbon dioxide (CAS 124-38-9) Listed.

**Basel Convention** 

Not applicable.

#### **Section 16: Other information**

 Issue date
 03-20-2015

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Version # 02

List of abbreviations Not available.

References Not available.

Material name: CO Contact Cleaner SDS MALAYSIA

#### Disclaimer

CRC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

**Revision Information** 

Composition / Information on Ingredients: Ingredients

Section 5: Fire-fighting measures: Suitable extinguishing media Physical & Chemical Properties: Multiple Properties Transport Information: Material Transportation Information

**GHS:** Classification