

## SAFETY DATA SHEET

### 1. Identification

**Product identifier Knock'er Loose® Penetrating Solvent** 

Other means of identification

03016, 03020 Product code Recommended use Penetrant 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 800-521-3168 **Technical** 

**Assistance** 

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

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

### 2. Hazard(s) identification

Physical hazards Gases under pressure Compressed gas **Health hazards** Skin corrosion/irritation Category 2

Serious eve damage/eve irritation Category 2A Sensitization, skin Category 1

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

Category 2

Category 3

Specific target organ toxicity, repeated

exposure

Aspiration hazard Category 1

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

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters

airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

**Precautionary statement** Prevention

Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49°C/120°F. 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 gas, mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing must not be allowed out of the workplace. Wash hands thoroughly after handling. Avoid release to the environment.

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Response If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash

with plenty of water. If skin irritation or rash 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.

Storage Store locked up. Protect from sunlight. Store in a well-ventilated place. 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)

None known.

#### Supplemental information

90.18% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

### 3. Composition/information on ingredients

xtures			
Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated middle		64742-46-7	40 - 50
Dipropylene glycol monomethyl ether acetate		88917-22-0	5 - 10
Dipropylene glycol monopropyl ether (dpmp)		29911-27-1	5 - 10
Turpentine, oil		8006-64-2	5 - 10
2,6-Dimethyl-4-heptanone		108-83-8	3 - 5
Fatty ester		Proprietary	3 - 5
Stoddard Solvent		8052-41-3	3 - 5
Carbon dioxide		124-38-9	1 - 3
Pine oil		8002-09-3	1 - 3
Pinus sylvestris extract		94266-48-5	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. Call a POISON
	CENTER or doctor/physician if you feel unwell.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. If skin irritation or

rash 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.

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. Aspiration may

cause pulmonary edema and pneumonitis.

Most important

symptoms/effects, acute and

delayed

Ingestion

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash. May cause redness and pain. Prolonged exposure may cause chronic effects.

Indication of immediate Provide general sup

medical attention and special treatment needed

**General information** 

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

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. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

Suitable extinguishing media
Unsuitable extinguishing
media

Water.
None known.

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Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire-fighting equipment/instructions

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

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. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. 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.

#### 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. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist or vapor. Do not breathe gas. 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

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.

Large Spills: 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. 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. Scoop up used absorbent into drums or other appropriate container. Prevent entry into waterways, sewer, basements or confined areas. 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. Contact local authorities in case of spillage to drain/aquatic 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.

### 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. 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. Do not re-use empty containers. Do not breathe mist or vapor. Do not breathe gas. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains. For product usage instructions, please see the product label.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Store in a well-ventilated place. Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

### 8. Exposure controls/personal protection

### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)  Components Type Value Form				
2,6-Dimethyl-4-heptanone (CAS 108-83-8)	PEL	290 mg/m3		
Carbon dioxide (CAS 124-38-9)	PEL	50 ppm 9000 mg/m3		

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Components	for Air Contaminants (29 CFR 1910.100 Type	, Value	Form
		5000 ppm	
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	PEL	5 mg/m3	Mist.
Stoddard Solvent (CAS 8052-41-3)	PEL	2900 mg/m3	
Turpentine, oil (CAS 8006-64-2)	PEL	500 ppm 560 mg/m3	
		100 ppm	
US. ACGIH Threshold Limit			
Components	Туре	Value	
2,6-Dimethyl-4-heptanone (CAS 108-83-8)	TWA	25 ppm	
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
Staddard Salvant (CAS	TWA TWA	5000 ppm	
Stoddard Solvent (CAS 8052-41-3) Turpentine, oil (CAS	TWA	100 ppm 20 ppm	
8006-64-2)	IWA	20 ρρπ	
US. NIOSH: Pocket Guide t	o Chemical Hazards		
Components	Туре	Value	Form
2,6-Dimethyl-4-heptanone (CAS 108-83-8)	TWA	150 mg/m3	
		25 ppm	
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
	TWA	30000 ppm	
	TVVA	9000 mg/m3 5000 ppm	
Distillates (petroleum),	STEL	10 mg/m3	Mist.
hydrotreated middle (CAS 64742-46-7)	0.22	-	··········
	TWA	5 mg/m3	Mist.
Stoddard Solvent (CAS 8052-41-3)	Ceiling	1800 mg/m3	
	TWA	350 mg/m3	
Turpentine, oil (CAS 8006-64-2)	TWA	560 mg/m3	
a mia al limeit vertera a	No biological exposure limits noted for	100 ppm	
ogical limit values	No biological exposure limits noted for	•	o upod Montiletter est
ropriate engineering trols	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.		

# Ind

Skin protection

**Hand protection** Wear protective gloves such as: Nitrile. Rubber. Other Wear appropriate chemical resistant clothing.

http://www.techni-tool.com

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

> 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

When using, do not eat, drink or 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. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. **Form** Aerosol. Color Red.

Pleasant pine. Odor **Odor threshold** Not available. Not available. pН

-121 °F (-85 °C) estimated Melting point/freezing point 311 °F (155 °C) estimated Initial boiling point and boiling

range

147 °F (63.9 °C) Tag Closed Cup Flash point

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

Flammability limit - lower

0.7 % estimated

(%)

Flammability limit - upper

7.1 % estimated

(%)

Vapor pressure 1958.7 hPa estimated

Vapor density > 1 (air = 1)0.86 Relative density Negligible. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

401 °F (205 °C) estimated Auto-ignition temperature

**Decomposition temperature** Not available. Not available. Viscosity (kinematic) Percent volatile 98.4 % estimated

### 10. Stability and reactivity

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

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

Possibility of hazardous

Conditions to avoid

reactions

No dangerous reaction known under conditions of normal use.

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Chlorine.

Hazardous decomposition

products

Carbon monoxide. Irritating and/or toxic fumes and gases may be emitted upon the products

decomposition.

### 11. Toxicological information

#### Information on likely routes of exposure

May be fatal if swallowed and enters airways. Ingestion

**Inhalation** Prolonged inhalation may be harmful. May cause damage to organs by inhalation. May cause

irritation to the respiratory system.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an

allergic skin reaction. Skin irritation. May cause redness and pain. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. May cause an allergic skin reaction. May cause

respiratory irritation.

Product Species Test Results

Knock'er Loose® Penetrating Solvent

Acute Dermal

LD50 Rabbit 9017.0938 mg/kg

Inhalation

LC50 Rat 117.794 mg/l, 4 hours estimated

Oral

LD50 Rat 4127.4175 mg/kg estimated

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

**ACGIH** sensitization

Turpentine, oil (CAS 8006-64-2) Sensitizer.

Respiratory sensitization Not available.

**Skin sensitization** May cause an allergic skin reaction.

**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.

Reproductive toxicity

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

Fish

Specific target organ toxicity -

single exposure

Respiratory tract irritation.

Specific target organ toxicity -

repeated exposure

Fish

May cause damage to organs through prolonged or repeated exposure.

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

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. May cause

damage to organs through prolonged or repeated exposure.

#### 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Product Species Test Results

Knock'er Loose® Penetrating Solvent

Aquatic

Acute

Crustacea EC50 Daphnia 433.5422 mg/l, 48 hours estimated

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LC50

2032.5204 µg/l, 96 hours estimated

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

Components Species Test Results

Dipropylene glycol monomethyl ether acetate (CAS 88917-22-0)

Aquatic

Acute

Crustacea LC50 Water flea (Daphnia magna) 2701 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) 151 mg/l, 96 hours

Rainbow trout,donaldson trout 111 mg/l, 96 hours

(Oncorhynchus mykiss)

Dipropylene glycol monopropyl ether (dpmp) (CAS 29911-27-1)

Aquatic

Acute

Crustacea EC50 Water flea (Daphnia magna) > 100 mg/l, 48 hours Fish LC50 Rainbow trout,donaldson trout > 100 mg/l, 96 hours

(Oncorhynchus mykiss)

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

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Dipropylene glycol monomethyl ether acetate 0.61 OECD 107
Dipropylene glycol monopropyl ether (dpmp) 0.87 OECD 107
Stoddard Solvent 3.16 - 7.15

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

The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). Consult authorities before disposal. 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 regulations.

Hazardous waste code Not regulated.

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.

#### 14. Transport information

DOT

UN number UN1950

UN proper shipping name Transport hazard class(es) Aerosols, non-flammable, limited quantity

Class 2.2

Subsidiary risk -

Label(s) 2.2

Packing group Not applicable.

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

Special provisions Not available.

Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

**IATA** 

UN number UN1950

**UN proper shipping name** Aerosols, non-flammable, limited quantity

Transport hazard class(es)

Class 2.2 Subsidiary risk -

Packing group Not applicable.

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

**Environmental hazards** No. 2L **ERG Code** 

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

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

**IMDG** 

UN1950 **UN** number

UN proper shipping name Transport hazard class(es)

AEROSOLS, LIMITED QUANTITY

2 Class Subsidiary risk

Not applicable. Packing group

**Environmental hazards** 

No.

Marine pollutant F-D. S-U **EmS** 

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

### 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.

SARA 304 Emergency release notification

Not regulated.

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

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.

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)

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

Reactivity Hazard - No

**SARA 302 Extremely** hazardous substance

**US state regulations** 

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

2,6-Dimethyl-4-heptanone (CAS 108-83-8)

Carbon dioxide (CAS 124-38-9)

Pine oil (CAS 8002-09-3)

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Stoddard Solvent (CAS 8052-41-3) Turpentine, oil (CAS 8006-64-2)

#### **US. Massachusetts RTK - Substance List**

2,6-Dimethyl-4-heptanone (CAS 108-83-8)

Carbon dioxide (CAS 124-38-9) Stoddard Solvent (CAS 8052-41-3) Turpentine, oil (CAS 8006-64-2)

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

2,6-Dimethyl-4-heptanone (CAS 108-83-8)

Carbon dioxide (CAS 124-38-9) Stoddard Solvent (CAS 8052-41-3)

#### US. Rhode Island RTK

None

#### **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

98.4 %

51.100(s))

Consumer products (40 CFR 59, Subpt. C) Not regulated

**State** 

**Consumer products** 

This product is regulated as a Penetrant. This product is compliant for use in all 50 states.

VOC content (CA) 23.6 % 23.6 % VOC content (OTC)

#### 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)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	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).

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

Issue date 11-19-2013 06-11-2014 **Revision date** Allison Cho Prepared by

Version #

**Further information** CRC # 548A **HMIS®** ratings Health: 1\* Flammability: 1

Physical hazard: 0 Personal protection: B **NFPA** ratings

Health: 1 Flammability: 1 Instability: 0

**NFPA** ratings



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