

# SAFETY DATA SHEET

## 1. Identification

Product identifier	Knock'er Loose® Penetrating Solvent	:	
Other means of identification			
Product code	03021, 03022, 03023, 03024, 03025		
Recommended use	Penetrant		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplie	r/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	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		
2. Hazard(s) identification	1		
Physical hazards	Flammable liquids	Category 4	
Health hazards	Skin corrosion/irritation	Category 2	
	Serious eye damage/eye irritation	Category 2A	

Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Sensitization, skin	Category 1
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Combustible liquid. 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		

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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. 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.

Prevention

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. In case of fire: Do not use water jet as an extinguisher, as this will spread the fire.
Storage	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

### Supplemental information

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

### 3. Composition/information on ingredients

lixtures			
Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated middle		64742-46-7	50 - 60
Dipropylene glycol monomethyl ether acetate		88917-22-0	10 - 20
Dipropylene glycol monopropyl ether (dpmp)		29911-27-1	10 - 20
Turpentine, oil		8006-64-2	10 - 20
2,6-Dimethyl-4-heptanone		108-83-8	3 - 5
Fatty ester		Proprietary	3 - 5
Stoddard Solvent		8052-41-3	3 - 5
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.
Ingestion	Call a physician or poison control center immediately. 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	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 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. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Water. Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. 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	In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.
General fire hazards	Combustible liquid.
6. Accidental release meas	sures
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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Do not breathe mist or vapor. 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 the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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.
	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. 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. Keep away from open flames, hot surfaces and 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. When using do not smoke. Do not breathe mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. 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** Store in a well-ventilated place. Keep away from heat, sparks and open flame. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

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

Components	Туре	Value	Form
2,6-Dimethyl-4-heptanone (CAS 108-83-8)	PEL	290 mg/m3	
		50 ppm	
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	PEL	5 mg/m3	Mist.
Stoddard Solvent (CAS 8052-41-3)	PEL	2900 mg/m3	
		500 ppm	
Turpentine, oil (CAS 8006-64-2)	PEL	560 mg/m3	
,		100 ppm	

Components	Туре	Value	
2,6-Dimethyl-4-heptanone (CAS 108-83-8)	TWA	25 ppm	
Stoddard Solvent (CAS 8052-41-3)	TWA	100 ppm	
Turpentine, oil (CAS 8006-64-2)	TWA	20 ppm	
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	
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	STEL	10 mg/m3	Mist.
,	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	
		100 ppm	
logical limit values	No biological exposure limits noted	for the ingredient(s).	
propriate engineering atrols	Good general ventilation (typically 1 should be matched to conditions. If or other engineering controls to mai exposure limits have not been estab wash facilities and emergency show	applicable, use process enclosu ntain airborne levels below reco plished, maintain airborne levels	res, local exhaust ventilation mmended exposure limits. If to an acceptable level. Eye
ividual protection measures	, such as personal protective equipr	ment	
Eye/face protection	Wear safety glasses with side shield	ds (or goggles).	
Skin protection			
Hand protection	Wear protective gloves such as: Nite	rile. Rubber.	
Other	Wear appropriate chemical resistan	t clothing.	
Respiratory protection	If engineering controls are not feasil NIOSH-approved cartridge respirato breathing apparatus in confined spa determine actual employee exposur	or with an organic vapor cartridge aces and for emergencies. Air mo	. Use a self-contained
Thermal hazards	Wear appropriate thermal protective	e clothing, when necessary.	
neral hygiene Isiderations	When using, do not eat, drink or sm the workplace.	oke. Contaminated work clothing	g should not be allowed out

# 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Red.
Odor	Pleasant pine.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-121 °F (-85 °C) estimated
Initial boiling point and boiling	311 °F (155 °C) estimated
range	
Flash point	147 °F (63.9 °C) Tag Closed Cup
Evaporation rate	Moderate
Flammability (solid, gas)	Not available.

### Upper/lower flammability or explosive limits

oppernower naminability of explosive limits		
0.7 % estimated		
7.1 % estimated		
4.7 hPa estimated		
> 1 (air = 1)		
0.86		
Negligible.		
Not available.		
401 °F (205 °C) estimated		
Not available.		
Not available.		
100 % 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	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	
Ingestion	May be fatal if swallowed and enters airways.	
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. s	
Information on toxicological ef	fects	
Acute toxicity	May be fatal if swallowed and enters airways. May cause an allergic skin reaction. May cause respiratory irritation. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.	

Create duct

Product	Species	Test Results
Knock'er Loose® Penetrat	ting Solvent	
Acute		
Dermal		
LD50	Rabbit	9017.0938 mg/kg
	Rat	4000 mg/kg estimated
Inhalation		
LC50	Rat	115.9098 mg/l, 4 hours estimated
Oral		
LD50	Rat	4061.3735 mg/kg estimated

\* Estimates for product may be based on additional component data not shown. Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitizatior	1	
ACGIH sensitization		
Turpentine, oil (CAS 8006	6-64-2) 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.	
Specific target organ toxicity - single exposure	Respiratory tract irritation.	
Specific target organ toxicity - repeated exposure	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

cotoxicity	btoxicity Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is		ation in aquatic organisms is expected.
Product		Species	Test Results
Knock'er Loose® Penetratin	g Solvent		
Aquatic			
Acute			
Crustacea	EC50	Daphnia	426.6055 mg/l, 48 hours estimated
Fish	LC50	Fish	2000 µg/l, 96 hours estimated
Components		Species	Test Results
Dipropylene glycol monome	thyl ether ace	tate (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 (Oncorhynchus mykiss)	111 mg/l, 96 hours
Dipropylene glycol monopro Aquatic	pyl ether (dpn	np) (CAS 29911-27-1)	
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	> 100 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 100 mg/l, 96 hours
* Estimates for product may	be based on	additional component data not shown.	
ersistence and degradability	No data is	No data is available on the degradability of this product.	
oaccumulative potential	No data a	No data available.	
Partition coefficient n-octa Dipropylene glycol monome Dipropylene glycol monopro Stoddard Solvent	thyl ether ace	tate 0.61 OECD 107	
obility in soil	No data a	vailable.	
ther 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	This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. 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.	

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

## 15. Regulatory information

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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 relea	se notification
Not regulated. US. OSHA Specifically Regu	ulated Substances (29 CFR 1910.1001-1050)
Not listed. US EPCRA (SARA Title III) S	Section 313 - Toxic Chemical: Listed substance
Not listed. CERCLA Hazardous Substa	nce List (40 CFR 302.4)
Not listed. CERCLA Hazardous Substa	nces: Reportable quantity
Not listed.	
Spills or releases resultin Response Center (800-42	g in the loss of any ingredient at or above its RQ require immediate notification to the National 24-8802) 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 Not regulated.	112(r) Accidental Release Prevention (40 CFR 68.130)
v	Not regulated
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.
Superfund Amendments an	d Reauthorization Act of 1986 (SARA)
Section 311/312 Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
US state regulations	
US. New Jersey Worker and	I Community Right-to-Know Act
2,6-Dimethyl-4-heptanon Pine oil (CAS 8002-09-3) Stoddard Solvent (CAS 8 Turpentine, oil (CAS 800	052-41-3)

#### US. Massachusetts RTK - Substance List

2,6-Dimethyl-4-heptanone (CAS 108-83-8) 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) Stoddard Solvent (CAS 8052-41-3) US. Rhode Island RTK

#### US. Knode Island KT

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 51.100(s))	100 %
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)	24 %
VOC content (OTC)	24 %

#### 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

\*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
Revision date	06-11-2014
Prepared by	Allison Cho
Version #	02
Further information	CRC # 548A
HMIS® ratings	Health: 1* Flammability: 2 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 1 Flammability: 2 Instability: 0



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