

RAMSOL HD

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Date prepared: 16 November 2016  
MSDS : RAMSOL HD SDS GHS

## 1. IDENTIFICATION

### Product Identifier

Product Name RAMSOL HD

### Recommended use of the chemical and restrictions on use

Recommended use Degreaser and oil-soluble hydrogen sulfide scavenger  
Restrictions on use For industrial use only

### Supplier details

West Penetone Inc.  
11411-160 Street  
Edmonton, AB,  
T5M3T7  
Tel: 780-454-3919

### Emergency Telephone Number

Canutec (613)-996-6666

## 2. HAZARDS IDENTIFICATION

### Classification

Flammable liquids	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Specific target organ toxicity – single exposure	Category 3
Specific target organ toxicity – repeated exposure	Category 2
Aspiration hazard	Category 1
Hazardous to the aquatic environment, acute hazard	Category 3
Hazardous to the aquatic environment, long-term hazard	Category 3

### Label Elements

#### DANGER

#### Hazard Statements

Flammable liquid and vapor  
Causes skin irritation  
Causes serious eye irritation  
Suspected of causing cancer  
May cause respiratory irritation; May cause drowsiness or dizziness  
May cause damage to organs <blood, kidneys, lungs, nervous system, liver, central nervous system> through prolonged or repeated exposure <<dermal, eye, inhalation>>  
May be fatal if swallowed and enters airways  
Harmful to aquatic life  
Harmful to aquatic life with long lasting effects



### Precautionary Statements - Prevention

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/hot surfaces/sparks/open flames and other ignition sources. No smoking.  
Keep container tightly closed.

Take action to prevent static discharges  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash face, hands and any exposed skin thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary Statements - Response**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation occurs: get medical advice/attention. Wash contaminated clothing before reuse.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician 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 advice/attention.  
If exposed or concerned: Get medical advice/attention if you feel unwell.  
In case of fire: Use carbon dioxide, foam or dry chemical to extinguish.

**Precautionary Statements - Storage**

Store locked up. Store in a well ventilated place. Keep container tightly closed. Keep cool.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
xylene	1330-20-7	10-30
tetra-N-butyl methylene diamine	20280-10-8	3-7
solvent naphtha (petroleum), light aromatic	64742-95-6	1-5
alcohols, (C12-15 ln. saturated), ethoxylate	68131-39-5	1-5
poly(oxy-1,2-ethanediyl),alpha-undecyl-omega-hydroxy-	34398-01-1	1-5
calcium dodecylbenzene sulfonate	26264-06-2	0.5-1.5

**4. FIRST AID MEASURES**

<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: get medical advice/attention. Wash contaminated clothing before reuse.
<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

**Most important symptoms and effects, both acute and delayed**

Contact with eyes may cause serious irritation leading to discomfort or pain, excess blinking and tear production with marked excess redness and swelling of the conjunctiva, blurred vision, and possible corneal injury. Contact with skin may cause irritation with local redness. Inhalation of mist/vapors/spray may cause drowsiness or dizziness as well destruction of the mucous membranes and upper respiratory tract leading to a burning sensation of the nose and throat, coughing, and difficulty breathing. Ingestion may cause irritation or a burning sensation of the mouth and throat and abdominal pain accompanied by nausea or vomiting. Aspiration into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death. Product contains materials which cause damage to the nervous system (CNS), liver, blood, kidneys, gastrointestinal tract, upper respiratory tract, skin, eyes, lens or cornea, testes. See Section 2 for possible delayed effects.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable Extinguishing Media

High-volume water jet.

### Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed including oxides of carbon, nitrogen, and sulfur, and other irritating gases.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Do not breathe vapor or mist. Wear appropriate respirator when ventilation is inadequate. Put on personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas.

### Environmental Precautions

Avoid discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

Contain and solidify with inert absorbent material. Keep in suitable, closed containers for disposal. Following product recovery, flush the area with water. For large spills, stop flow of material, prevent product from entering drains, and pump off product where this is without risk and possible. Proceed as above.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

#### Handling

Avoid contact with skin, eyes and clothing. Ensure thorough ventilation of work areas. Do not handle or store near sources of ignition. Use personal protective equipment. Smoking, eating and drinking should be prohibited in the application area.

### Conditions for safe storage, including any incompatibilities

#### Storage

Keep containers tightly closed away from direct sunlight in a dry, cool and well-ventilated place, away from incompatible materials.

#### Incompatible Materials

Strong oxidizing materials, acids.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
xylenes 1330-20-7	TWA: 100 ppm/434 mg/m <sup>3</sup> STEL: 150 ppm/651 mg/m <sup>3</sup>	TWA: 100 ppm/435 mg/m <sup>3</sup> STEL: 150 ppm/655 mg/m <sup>3</sup>	Not available
solvent naphtha (petroleum), light aromatic 64742-95-6	Not available	TWA: 500 ppm/2000mg/m <sup>3</sup>	Not available

### Appropriate engineering controls

#### Engineering Controls

Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be made available when handling this product.

### Individual protection measures, such as personal protective equipment

#### Eye/face Protection

Safety glasses with side shields or goggles and/or face-shield.

#### Skin and body protection

Wear protective gloves and protective clothing.

**Respiratory Protection**

Wear respiratory protection if ventilation is inadequate. Respiratory protection in case of vapor/aerosol release.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants.

**9. PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE :**

Clear, colorless liquid

**ODOR**

Solvent

**ODOR THRESHOLD :**

Not applicable

**pH :**

Not applicable

**MELTING POINT / FREEZING POINT :**

Not available

**BOILING POINT/BOILING RANGE :**

Not available

**FLASH POINT :**

41°C (TCC)

**EVAPORATION RATE, water = 1 :**

Not available

**FLAMMABILITY (SOLID, GAS):**

Not applicable

**VAPOR PRESSURE, mm Hg AT 20°C :**

Not available

**VAPOR DENSITY (Air = 1) :**

>1

**RELATIVE DENSITY AT 20°C:**

0.95

**SOLUBILITY IN WATER :**

Forms emulsion

**PARTITION COEFFICIENT, N-OCTANOL/WATER :**

Not available

**AUTO-IGNITION TEMPERATURE :**

Not available

**DECOMPOSITION TEMPERATURE:**

Not available

**VISCOSITY:**

Not available

**FLAMMABLE LIMITS :**

UPPER: Not available LOWER : Not available

**10. STABILITY AND REACTIVITY****Reactivity**

Not reactive.

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to Avoid**

Store away from incompatible materials.

**Incompatible Materials**

Strong oxidizing materials, acids.

**Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition can lead to release of irritating gases and vapors such as oxides of carbon, nitrogen, and sulfur as well as other low molecular weight hydrocarbons.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

**ATE<sub>mix</sub>** – LD50 oral – approx. >10000 mg/kg (rat), LD50 dermal – approx. >6273 mg/kg (rabbit), LC50 inhalation-vapors – approx. >77 mg/L – 4 h (rat)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
xlenes 1330-20-7	3500-4300 mg/kg (rat)	>2000 mg/kg (rabbit)	>20 mg/L (rat) – 4 h 5000 ppm (rat) – 4 h
tetra-N-butyl methylene diamine 20280-10-8	Not listed	>2000 mg/kg (rat)	Not listed
solvent naphtha (petroleum), light aromatic 64742-95-6	Not listed	>2000 mg/kg (rabbit)	3400 ppm/>5.2 mg/L (rat) – 4 h
alcohols, C12-C15, ethoxylated 68131-39-5	>2000 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed
poly(oxy-1,2-ethanediyl),alpha-undecyl-omega-hydroxy- 34398-01-1	>2000 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed
calcium dodecylbenzene sulfonate 26264-06-2	1300 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed

**Information on likely sources of exposure**

<b>Inhalation</b>	May cause coughing, respiratory irritation and possible damage.
<b>Serious eye damage/irritation</b>	Causes serious eye irritation. May cause pain, watering and redness.
<b>Skin corrosion/irritation</b>	Causes skin irritation, redness and possible blistering or dermatitis.
<b>Ingestion</b>	May be harmful if swallowed. May cause stomach pains.

**Delayed and immediate effects and also chronic effects from short and long-term exposure**

<b>Respiratory or skin sensitization</b>	Not a sensitizer.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	Contains materials suspected of causing cancer
<b>Reproductive toxicity</b>	No information available
<b>STOT - single exposure</b>	CAS 64742-95-6; 1330-20-7      3 May cause respiratory irritation: drowsiness or dizziness
<b>STOT - repeated exposure</b>	Contains materials that may cause target organ damage, based on animal data
<b>Aspiration Hazard</b>	CAS 64742-95-6, 1330-20-7      1 May be fatal if swallowed and enters airways

**Symptoms related to the physical, chemical and toxicological characteristics**

See Section 2 &amp; 4.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

If available, ecotoxicity values of individual components are shown below.

<b>Chemical Name</b>	<b>Fish</b>	<b>Waterflea</b>	<b>Algae</b>
xlenes 1330-20-7	1-10 mg/L: 96 h LC50	1-10 mg/L: 48 h EC50	1-10 mg/L: 72 h EC50
solvent naphtha (petroleum), light aromatic 64742-95-6	9.22 mg/L: 96 h rainbow trout LC50	Not available	Not available
alcohols, C12-C15, ethoxylated 68131-39-5	5-10 mg/L: 96 h LC50	5-10 mg/L: 48 h EC50	10-100 mg/L: 72 h EC50
poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy- 34398-01-1	5-10 mg/L: 96 h	5-10 mg/L: 48 h	10-100 mg/L: 72 h
calcium dodecylbenzene sulfonate 26264-06-2	20 mg/L: 96 h LC50	2.2-15 mg/L: 48 h EC50	1.25-75 mg/L: EC50

**Persistence and degradability**

Expected to be readily biodegradable

**Bioaccumulative potential**

No information available.

**Mobility in soil**

No information available

**Other adverse effects**

Do not release untreated into natural waters. No other adverse environmental effects are expected.

**13. DISPOSAL CONSIDERATIONS****Waste Disposal Method**

Dispose of in accordance with local regulations.

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

**14. TRANSPORT INFORMATION****TDG classification**

UN 3295, Hydrocarbons, Liquid, N.O.S. (petroleum distillates), Class 3, PG III

**15. REGULATORY INFORMATION**

All ingredients are listed on the DSL

**16. OTHER INFORMATION****Preparation Date**

16 November, 2016

**Revision Date**

not applicable

**Revision Note**

not applicable

**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**