

RAMEX

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Date prepared: 7 November 2016
MSDS : RAMEX SDS GHS

1. IDENTIFICATION

Product Identifier

Product Name RAMEX

Recommended use of the chemical and restrictions on use

Recommended use Degreaser
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 |
| Acute toxicity, inhalation - vapors | Category 4 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2A |
| Carcinogenicity | Category 2 |
| Reproductive toxicity | 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 2 |

Label Elements

DANGER

Hazard Statements

Flammable liquid and vapor
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
Suspected of causing cancer
Suspected of damaging fertility or the unborn child
May cause respiratory irritation
May cause damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Toxic to aquatic life



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.
Do not breathe 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 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 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 SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
IF exposed or concerned: Get medical advice/attention.
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 % |
|--|------------|----------|
| Stoddard solvent* | 8052-41-3 | 60-100 |
| 1,2,4- trimethylbenzene | 95-63-6 | 3-7 |
| solvent naphtha (petroleum) light aromatic | 64742-95-6 | 3-7 |
| xylene** | 1330-20-7 | 1-5 |
| alcohols, C9-C11, ethoxylated | 68439-46-3 | 1-5 |
| mesitylene | 108-67-8 | 0.5-1.5 |
| dipropylene glycol monomethyl ether | 34590-94-8 | 0.5-1.5 |
| 1,2,3- trimethylbenzene | 526-73-8 | 0.1-1.0 |

HAZARDOUS INGREDIENT(S) CONTAINED IN COMPLEX SUBSTANCES

| | | |
|----------------|----------|---------|
| *nonane | 111-84-2 | 1-5 |
| **ethylbenzene | 100-41-4 | 1-5 |
| *naphthalene | 91-20-3 | 0.1-1.0 |

4. FIRST AID MEASURES

| | |
|---------------------|--|
| Eye contact | 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. |
| Skin contact | 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. |
| Inhalation | Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. |
| Ingestion | 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 eye irritation leading to discomfort or pain, excess blinking and tear production with marked excess redness and swelling of the conjunctiva. Contact with skin may cause irritation with local redness and possible dermatitis with prolonged or repeated exposure. Inhalation of mist/vapors/spray may cause respiratory tract irritation leading to a temporary burning sensation of the nose and throat, coughing, and difficulty breathing. High concentrations may cause central nervous system depression leading to headaches, dizziness, and nausea. Ingestion may cause irritation or a burning sensation of the mouth and throat and abdominal pain. Aspiration into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death. See Section 2 for 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, 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. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

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 and inhalation of mist/vapors/spray. Avoid contact with skin, eyes and clothing. Ensure thorough ventilation of work areas.

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

Acids, strong oxidizing agents

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 |
|--|---|---|-------------------------|
| Stoddard solvent 8052-41-3 | TWA: 100 ppm TLV | TWA: 100 ppm/525 mg/m ³ | 20000 mg/m ³ |
| 1,2,4-trimethylbenzene 95-63-6 | Not available | Not available | 25 ppm (REL) |
| solvent naphtha (petroleum) light aromatic 64742-95-6 | Not available | TWA: 500 ppm/2000mg/m ³ | Not available |
| xylene 1330-20-7 | TWA: 100 ppm/434 mg/m ³ STEL: 150 ppm/651 mg/m ³ | TWA: 100 ppm/435 mg/m ³ STEL: 150 ppm/655 mg/m ³ | Not available |
| mesitylene 108-67-8 | Not available | Not available | 25 ppm (REL) |
| dipropylene glycol monomethyl ether 34590-94-8 | TWA: 100 ppm, skin STEL: 150 ppm, skin | Z-1 TWA: 600 mg/m ³ , 100 ppm, skin | Not available |
| 1,2,3-trimethylbenzene 526-73-8 | Not available | Not available | 25 ppm (REL) |

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. Face shield where handling may produce splashing hazards.

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, yellow liquid

ODOR

Solvent

ODOR THRESHOLD :

Not applicable

pH :

Not applicable

MELTING POINT / FREEZING POINT :

Approx. -34°C

BOILING POINT/BOILING RANGE :

140.8°C

FLASH POINT :

49°C (TCC)

EVAPORATION RATE, water = 1 :

>1

FLAMMABILITY (SOLID, GAS):

Not applicable

VAPOR PRESSURE, mm Hg AT 20°C :

Not available

VAPOR DENSITY (Air = 1) :

Not available

RELATIVE DENSITY AT 20°C:

0.800-0.810

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

Avoid all sources of ignition: heat/open flame/hot surfaces. Store away from incompatible materials.

Incompatible Materials

Acids, strong oxidizing materials.

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_{mix}** – LD50 oral – approx. ≥4912 mg/kg (rat), LD50 dermal – approx. >2924 mg/kg (rabbit), LC50 inhalation-vapors – approx. ≥15 mg/L – 4 h (rat)

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--|-----------------------|----------------------|--|
| Stoddard solvent 8052-41-3 | 5000 mg/kg (rat) | >3000 mg/kg (rabbit) | >14.1 mg/L/>5500 mg/m ³ (rat) – 4 h |
| 1,2,4-trimethylbenzene 95-63-6 | 5000 mg/kg (rat) | Not listed | 18 mg/L (rat) – 4 h |
| solvent naphtha (petroleum) light aromatic 64742-95-6 | 8400 mg/kg (rat) | >2000 mg/kg (rabbit) | 3400 ppm/>5.2 mg/L (rat) – 4 h |
| xylene 1330-20-7 | 3500-4300 mg/kg (rat) | >2000 mg/kg (rabbit) | >20 mg/L (rat) – 4 h 5000 ppm (rat) – 4 h |
| alcohols, C9-C11, ethoxylated 68439-46-3 | >2000 mg/kg (rat) | >2000 mg/kg (rabbit) | Not listed |
| mesitylene 108-67-8 | 5000 mg/kg (rat) | Not listed | 24 mg/L (rat) – 4 h |
| dipropylene glycol monomethyl ether 34590-94-8 | >5000 mg/kg (rat) | 9510 mg/kg (rabbit) | NOEC 3.35 mg/L, 7 h, vapor (rat) |

Information on likely sources of exposure

| | |
|-------------------------------|--|
| Inhalation | May cause respiratory irritation and possible damage |
| Serious eye damage/irritation | Causes serious eye irritation. |
| Skin corrosion/irritation | Causes skin irritation and possible dermatitis. |
| Ingestion | May be harmful if swallowed. |

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

| | | |
|-----------------------------------|---|--|
| Respiratory or skin sensitization | Not a sensitizer. | |
| Germ cell mutagenicity | No information available. | |
| Carcinogenicity | ethylbenzene (CAS 100-41-4) | 2 Suspected human carcinogen |
| | naphthalene (CAS 91-20-3) | 2 Suspected human carcinogen |
| Reproductive toxicity | xylene (CAS 1330-20-7) | 2 Suspect human reproductive toxicant |
| STOT - single exposure | Stoddard solvent (CAS 8052-41-3) | 3 May cause respiratory irritation |
| | solvent naphtha (petroleum) light aromatic (CAS 64742-95-6) | 3 May cause respiratory irritation |
| | xylene (CAS 1330-20-7) | 3 May cause respiratory irritation |
| STOT - repeated exposure | Stoddard solvent (CAS 8052-41-3) | 2 May cause dermatitis |
| | xylene (CAS 1330-20-7) | 2 May cause dermatitis and TO damage |
| Aspiration Hazard | Stoddard solvent (CAS 8052-41-3) | 1 May be fatal if swallowed and enters airways |
| | solvent naphtha (petroleum) light aromatic (CAS 64742-95-6) | 1 May be fatal if swallowed and enters airways |
| | xylene (CAS 1330-20-7) | 1 May be fatal if swallowed and enters airways |

Symptoms related to the physical, chemical and toxicological characteristics

See Section 2 & 4.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

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

| Chemical Name | Fish | Waterflea | Algae |
|--|--|---------------------------------------|-----------------------------------|
| solvent naphtha (petroleum) light aromatic 64742-95-6 | 9.22 mg/L: 96 h rainbow trout LC50 | Not available | Not available |
| xylene 1330-20-7 | 1-10 mg/L: 96 h LC50 | 1-10 mg/L: 48 h EC50 | 1-10 mg/L: 72 h EC50 |
| alcohols, C9-C11, ethoxylated 68439-46-3 | 5-10 mg/L: 96 h LC50 | 5-10 mg/L: 48 h EC50 | 10-100 mg/L: 72 h EC50 |
| dipropylene glycol monomethyl ether 34590-94-8 | >1000 mg/L: 96 h poecilia reticulata LC50 | 1919 mg/L: 48 h daphnia magna LC50 | >969 mg/L: 96 h green algae ErC50 |

Persistence and degradability

Expected to be readily biodegradable.

Bioaccumulative potential

Accumulation in organisms is not to be expected.

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. (mineral spirits), Class 3, PG III

15. REGULATORY INFORMATION

All ingredients are listed on the DSL

16. OTHER INFORMATION**Preparation Date**

7 November, 2016

Revision Date

January 29, 2018

Revision Note

Update in hazards and composition information in Sections 2, 3, 8, 11

Disclaimer

The information provided on this SDS 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