

SUPER ECO REMOVER

MSDS Preparation Date (mm/dd/yyyy): 05/30/2014

Page 1 of 8

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product identifier : **SUPER ECO REMOVER**

Product Code(s) : N/Ap

Product Use : Paint, varnish and glue remover.

Chemical Family : Mixture

Supplier's name and address:

Manufacturer's name and address:

Distributions J. Des Serres Inc

Refer to Supplier

C.P. 12
Granby, QC, Canada
J2G 8E2

Information Telephone # : (450) 770-2948 (Monday - Friday, 8:00 am - 5:00 pm, Eastern Standard Time)

24 Hr. Emergency Tel # : (613) 996-6666 (CANUTEC)

SECTION 2 - HAZARDS IDENTIFICATION

Classification : OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).

Hazardous classification:

Combustible liquid
Acute Health Hazard
Chronic Health Hazard

WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR).

WHMIS classification:

Class B3 (Combustible Liquids)
Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material)
Class D2B (Materials Causing Other Toxic Effects, Toxic Material)

Emergency Overview

: Colourless gel. Fishy odour.

WARNING! Combustible liquid and vapour. Harmful if inhaled. Inhalation may cause respiratory irritation and central nervous system depression. Harmful if swallowed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Causes serious eye damage. May cause mild skin irritation. Possible birth defect hazard - contains material that may cause birth defects, based on animal data.

POTENTIAL HEALTH EFFECTS:

Signs and symptoms of short-term (acute) exposure

Inhalation : Harmful if inhaled. May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Prolonged overexposure may cause liver and kidney effects.

Skin : May cause mild skin irritation. The product may be absorbed through the skin.

Eyes : Severely irritating or corrosive. Symptoms may include severe pain, blurred vision, redness and corrosive damage.

Ingestion : Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

Effects of long-term (chronic) exposure

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Liver and kidney injuries may occur.

Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards : Potential teratogen. See TOXICOLOGICAL INFORMATION, Section 11.

SUPER ECO REMOVER

MSDS Preparation Date (mm/dd/yyyy): 05/30/2014

Page 2 of 8

Potential environmental effects

: See ECOLOGICAL INFORMATION, Section 12.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS # | Wt.% |
|-------------------------------|--------------|----------------|
| Dimethylformamide | 68-12-2 | 60.00 - 100.00 |
| Hydroxypropyl methylcellulose | 9004-65-3 | 1.00 - 5.00 |

SECTION 4 - FIRST AID MEASURES

- Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Wash thoroughly with soap and water for at least 20 minutes. Seek immediate medical attention/advice.
- Eye contact** : Immediately flush eyes with running water for at least 20 minutes. Seek immediate medical attention/advice.
- Ingestion** : Seek immediate medical attention/advice. Do NOT induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
- Notes For Physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

- : Combustible liquid and vapour. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapours are heavier than air and collect in confined and low-lying areas.

Flammability classification (OSHA 29 CFR 1910.1200)

- : Class II Combustible Liquid.

Oxidizing properties

- : None known.

Explosion data: Sensitivity to mechanical impact / static discharge

- : Not expected to be sensitive to mechanical impact. May be sensitive to static discharge.

- Suitable extinguishing media** : Dry chemical, foam, carbon dioxide and water fog. Do not use a solid water stream as it may scatter and spread fire.

Special fire-fighting procedures/equipment

- : Immediately evacuate personnel to safe areas. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Fight fires from a safe distance. Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products

- : Carbon oxides; Ammonia; Nitrogen oxides and other irritating fumes and smoke.

NFPA Rating

- 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
: *Health:* 3 *Flammability:* 2 *Instability:* 0 *Special Hazards:* None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Ensure clean-up is conducted by trained personnel only. Keep all other personnel upwind and away from the spill/release. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

SUPER ECO REMOVER

MSDS Preparation Date (mm/dd/yyyy): 05/30/2014

Page 3 of 8

- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.
- Spill response/cleanup** : Evacuate personnel to safe areas. Restrict access to area until completion of clean-up. Ventilate area of release. Remove all sources of ignition. Stop the spill at source if it is safe to do so. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.
- Prohibited materials** : Do not use combustible absorbents, such as sawdust.
- Special spill response procedures** : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
 US CERCLA Reportable quantity (RQ): See section 15.

SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Use in a well-ventilated area. Wear suitable protective equipment during handling. Do not ingest. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Avoid contact with incompatible materials. Wash thoroughly after handling.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.
- Incompatible materials** : Strong oxidizing agents; Strong bases; Strong acids; Halogenated compounds
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

| <u>Ingredients</u> | <u>ACGIH TLV</u> | | <u>OSHA PEL</u> | |
|-------------------------------|------------------|-------------|-------------------------------|-------------|
| | <u>TWA</u> | <u>STEL</u> | <u>PEL</u> | <u>STEL</u> |
| Dimethylformamide | 10 ppm | N/Av | 10 ppm ; 30 mg/m ³ | N/Av |
| Hydroxypropyl methylcellulose | N/Av | N/Av | N/Av | N/Av |

There is no established exposure limits for this product. The above exposure limits are provided for safety reasons.

- Ventilation and engineering measures** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.
- Respiratory protection** : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. A self contained breathing apparatus should be used in emergency situations or instances where exposure levels are not known. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.
- Skin protection** : Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers.
- Eye / face protection** : Chemical splash goggles must be worn when handling this material. A full face shield may also be necessary.
- Other protective equipment** : Wear resistant clothing and boots. An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

General hygiene considerations

SUPER ECO REMOVER

MSDS Preparation Date (mm/dd/yyyy): 05/30/2014

Page 4 of 8

: Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not ingest. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|------------------------------|---|--|
| Physical state | : gel | Appearance | : Colourless gel. |
| Odour | : Fishy odour. | Odour threshold | : N/Av |
| pH | : N/Av | | |
| Boiling point | : 153°C (307.4°F) | Specific gravity | : 0.94 |
| Melting/Freezing point | : -61°C (-77.8°F) | Coefficient of water/oil distribution | : N/Av |
| Vapour pressure (mmHg @ 20° C / 68° F) | : N/Av | Solubility in water | : Complete |
| Vapour density (Air = 1) | : 2.52 | Evaporation rate (n-Butyl acetate = 1) | : N/Av |
| Volatile organic Compounds (VOC's) | : N/Av | Volatiles (% by weight) | : N/Av |
| Flash point | : 58°C (136.4°F) | | |
| Flash point Method | : closed cup | Auto-ignition temperature | : 410°C (770°F) (based on ingredients) |
| Lower flammable limit (% by vol.) | : 2.2 (based on ingredients) | Upper flammable limit (% by vol.) | : 16.0 (based on ingredients) |
| Flame Projection Length | : N/Av | Flashback observed | : N/Av |
| Viscosity | : N/Av | | |
| Absolute pressure of container | : N/Av | | |

SECTION 10: STABILITY AND REACTIVITY

| | |
|---|--|
| Stability and reactivity | : Stable under the recommended storage and handling conditions prescribed. |
| Hazardous polymerization | : Will not occur. |
| Conditions to avoid | : Avoid heat and open flame. Keep away from direct sunlight. Do not use in areas without adequate ventilation. |
| Materials To Avoid And Incompatibility | : Avoid contact with incompatible materials. See Section 7 (Handling and Storage) for further details. |
| Hazardous decomposition products | : None known, refer to hazardous combustion products in Section 5. |

SECTION 11 - TOXICOLOGICAL INFORMATION

| | |
|---------------------------|---|
| Target organs | : Eyes, skin, respiratory system, digestive system, central nervous system. Liver and kidney injuries may occur. |
| Routes of exposure | : <i>Inhalation</i> : YES <i>Skin Absorption</i> : YES <i>Skin & Eyes</i> : YES <i>Ingestion</i> : YES |
| Toxicological data | : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. |

| Ingredients | LC₅₀(4hr) | LD₅₀ | |
|-------------------------------|-----------------------------|------------------------|-------------------------|
| | inh, rat | (Oral, rat) | (Rabbit, dermal) |
| Dimethylformamide | >5900 mg/m ³ | 3040 mg/kg | >3160 mg/kg |
| Hydroxypropyl methylcellulose | N/Av | N/Av | N/Av |

Carcinogenic status : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive effects : Not expected to cause reproductive effects.

SUPER ECO REMOVER

MSDS Preparation Date (mm/dd/yyyy): 05/30/2014

Page 5 of 8

- Teratogenicity** : Contains Dimethylformamide. There is some limited animal evidence that Dimethylformamide may cause fetotoxic effects at doses which are not maternally toxic.
- Mutagenicity** : Not expected to be mutagenic in humans.
- Epidemiology** : None known or reported by the manufacturer.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Synergistic materials** : None known or reported by the manufacturer.
- Irritancy** : Severely irritating to eyes. May cause mild skin irritation. May cause respiratory irritation.
- other important hazards** : None known or reported by the manufacturer.
- Conditions aggravated by overexposure** : Pre-existing skin, eye and respiratory disorders.

SECTION 12 - ECOLOGICAL INFORMATION

- Ecotoxicity** : No data is available on the product itself. See the following tables for individual ingredient ecotoxicity data. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Ecotoxicity data:

| <u>Ingredients</u> | CAS No | Toxicity to Fish | | |
|-------------------------------|-----------|------------------------------|---------------------------------|----------|
| | | LC50 / 96h | NOEC / 21 day | M Factor |
| Dimethylformamide | 68-12-2 | 7100 mg/L (Bluegill sunfish) | 3200 mg/L NOEC (Fathead minnow) | None. |
| Hydroxypropyl methylcellulose | 9004-65-3 | N/Av | N/Av | N/Av |

| <u>Ingredients</u> | CAS No | Toxicity to Daphnia | | |
|-------------------------------|-----------|------------------------|-----------------------------|----------|
| | | EC50 / 48h | NOEC / 21 day | M Factor |
| Dimethylformamide | 68-12-2 | >100 mg/L (Water flea) | 1500 mg/L NOEC (Water flea) | None. |
| Hydroxypropyl methylcellulose | 9004-65-3 | N/Av | N/Av | None. |

| <u>Ingredients</u> | CAS No | Toxicity to Algae | | |
|-------------------------------|-----------|-------------------------------|-------------------|----------|
| | | EC50 / 96h or 72h | NOEC / 96h or 72h | M Factor |
| Dimethylformamide | 68-12-2 | >1000 mg/L/96hr (Green algae) | N/Av | None. |
| Hydroxypropyl methylcellulose | 9004-65-3 | N/Av | N/Av | N/Av |

- Mobility** : No data is available on the product itself.
- Persistence** : No data is available on the product itself.
- Bioaccumulation potential** : No data is available on the product itself.
- Other Adverse Environmental effects** : No data is available on the product itself.

SECTION 13 - DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Handle waste according to recommendations in Section 7. Do not cut, weld, drill or grind on or near this container. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

SUPER ECO REMOVER

MSDS Preparation Date (mm/dd/yyyy): 05/30/2014

Page 6 of 8

Methods of Disposal : Reuse or recycling should be given priority over disposal. If the material is unsuitable for recycling or reclamation, dispose of in accordance with federal, provincial and local hazardous waste laws. Contact your local, state or federal environmental agency for specific rules.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14: TRANSPORT INFORMATION

| Regulatory Information | UN Number | Shipping Name | Class | Packing Group | Label |
|---|---|------------------------|-------|---------------|---|
| TDG | UN2265 | N,N-DIMETHYLFORMAMIDE | 3 | III |  |
| TDG Additional information | Within Canada, the Limited Quantity Exemption may apply for containers which hold specific quantities of the product. Under the TDGR, refer to section 1.17 for Limited Quantity Exemption information, if shipping under this exemption. | | | | |
| 49CFR/DOT | UN2265 | N, N-DIMETHYLFORMAMIDE | 3 | III |  |
| 49CFR/DOT Additional information | May be shipped as a Limited Quantity according to packaging section 173.150. Refer to 49 CFR Section 173.150. | | | | |

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

| <u>Ingredients</u> | CAS # | TSCA Inventory | CERCLA Reportable Quantity(RQ) (40 CFR 117.302): | SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355: | SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical | |
|-------------------------------|-----------|----------------|--|--|---|--------------------------|
| | | | | | Toxic Chemical | de minimus Concentration |
| Dimethylformamide | 68-12-2 | Yes | 100 lb/ 45.4 kg | None. | Yes | No |
| Hydroxypropyl methylcellulose | 9004-65-3 | Yes | None. | None. | No | No |

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard; Chronic Health Hazard; Fire Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

| <u>Ingredients</u> | CAS # | California Proposition 65 | | State "Right to Know" Lists | | | | | |
|-------------------------------|-----------|---------------------------|------------------|-----------------------------|-----|-----|-----|-----|-----|
| | | Listed | Type of Toxicity | CA | MA | MN | NJ | PA | RI |
| Dimethylformamide | 68-12-2 | No | N/Ap | Yes | Yes | Yes | Yes | Yes | Yes |
| Hydroxypropyl methylcellulose | 9004-65-3 | No | N/Ap | No | No | No | No | No | No |

SUPER ECO REMOVER

MSDS Preparation Date (mm/dd/yyyy): 05/30/2014

Page 7 of 8

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian WHMIS Classification: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). Refer to Section 2 for a WHMIS Classification for this product.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

International Information:

Components listed below are present on the following International Inventory list:

| <u>Ingredients</u> | <u>CAS #</u> | <u>European EINECS</u> | <u>Australia AICS</u> | <u>Philippines PICCS</u> | <u>Japan ENCS</u> | <u>Korea KECI/KECL</u> | <u>China IECSC</u> | <u>NewZealand IOC</u> |
|-------------------------------|--------------|------------------------|-----------------------|--------------------------|-------------------|------------------------|--------------------|---------------------------|
| Dimethylformamide | 68-12-2 | 200-679-5 | Present | Present | (2)-680 | KE-11411 | Present | HSR001133 |
| Hydroxypropyl methylcellulose | 9004-65-3 | N/Av | Present | Present | (8)-196 | KE-05368 | Present | No information available. |

SECTION 16 - OTHER INFORMATION

HMIS Rating : * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
*Health: *3 Flammability: 2 Reactivity: 0*

Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- DOT: Department of Transportation
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- Inh: Inhalation
- LC: Lethal Concentration
- LD: Lethal Dose
- MA: Massachusetts
- MN: Minnesota
- MSHA: Mine Safety and Health Administration
- N/Av: Not Applicable
- N/Av: Not Available
- NIOSH: National Institute of Occupational Safety and Health
- NJ: New Jersey
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PA: Pennsylvania
- PEL: Permissible exposure limit
- QSAR: Quantitative structure-activity relationship
- RCRA: Resource Conservation and Recovery Act
- RI: Rhode Island
- RTECS: Registry of Toxic Effects of Chemical Substances
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short Term Exposure Limit
- TCC: Tagliabue Closed Cup
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TWA: Time Weighted Average

SUPER ECO REMOVER

MSDS Preparation Date (mm/dd/yyyy): 05/30/2014

Page 8 of 8

TSCA: Toxic Substance Control Act
WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2014.
2. International Agency for Research on Cancer Monographs, searched 2014.
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2014 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - October 2012
6. California Proposition 65 List - 2 May 2014

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|--|--|
| <p><u>Prepared for:</u> Distributions J. Des Serres Inc. C.P. 12 Granby, QC, Canada. J2G 8E2 Telephone: (450) 770-2948 Direct all enquiries to: Distributions J. Des Serres</p> | |
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