



ENVIROSOLVE

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 11/20/2018

Revision date: 11/30/2018

Version: 2.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : ENVIROSOLVE
Other means of identification :

1.2. Recommended use and restrictions on use

Recommended use : Plant Based Solvent Cleaner/Degreaser
Restrictions on use : Not determined

1.3. Supplier

Krown Rust Control
35 MAGNUM DRIVE
L0G 1T0 SCHOMBERG - CANADA
T (905) 939-8750

1.4. Emergency telephone number

Emergency number : (905) 939-8750

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS-CA)

Hazcom 2012/GHS Classification: Not classified as hazardous

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling : None

2.3. Other hazards

Other hazards not contributing to the classification : None.

2.4. Unknown acute toxicity (GHS-CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS-CA)
Methyl 9-dodecenoate (9-dodecenoic acid methyl ester)	Methyl 9-dodecenoate	(CAS-No.) 39202-17-0	95.0>	Aquatic Acute Toxicity Category 1 (H400)

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Take off immediately all contaminated clothing. Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

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- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.
 First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after skin contact : Inhalation of mists or heated vapours may cause irritation of the eye and respiratory system.
 Symptoms/effects after eye contact : Immediate medical treatment is not anticipated to be required.

4.3. Immediate medical attention and special treatment, if necessary

- Other medical advice or treatment : Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Unsuitable extinguishing media

- Unsuitable extinguishing media : Not determined.

5.3. Specific hazards arising from the hazardous product

No additional information available

5.4. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Exercise caution when fighting any chemical fire.
 Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment. Ventilate the area. Use caution – surfaces will be very slippery.

6.2. Methods and materials for containment and cleaning up

- Methods for cleaning up : In case of large spillages: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Shovel or sweep up and put in a closed container for disposal. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Notify authorities if product enters sewers or public waters.
 Other information : Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
 Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Methyl 9-dodecenoate (39202-17-0)		
Canada (Quebec)	VEMP (mg/m ³)	None Established
Canada (Quebec)	VEMP (ppm)	None Established
Alberta	OEL TWA (mg/m ³)	None Established
Alberta	OEL TWA (ppm)	None Established
British Columbia	OEL TWA (ppm)	None Established
Ontario	OEL TWA (ppm)	None Established
NIOSH	NIOSH REL (TWA) (mg/m ³) NIOSH REL (TWA) (ppm) NIOSH REL (STEL) (mg/m ³) NIOSH REL (STEL) (ppm)	None Established

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.

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Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Materials for protective clothing:

Impervious clothing is recommended if needed to avoid skin contact.

Hand protection:

Protective gloves

Eye protection:

Chemical goggles or safety glasses. Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Colourless liquid
Colour	: NA
Odour	: Characteristic.
Odour threshold	: No data available
pH	: NA
Relative evaporation rate (butylacetate=1)	: > 1
Relative evaporation rate (ether=1)	: No data available
Melting point	: <-20°C
Freezing point	: <-20°C
Boiling point	: 267°C
Flash point	: 127°C (260.6°F)
Auto-ignition temperature	: 242°C (467.6)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 0.93 Pa (0.007 mmHg) @ 25°C
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: 0.6
Relative density	: 0.882
Solubility	: 0.00105 g/L
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 3.45 mm ² /sec @ 20°C
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Oxidizing agents and strong acids.
Incompatible materials	: Peroxides. Sodium hypochlorite.

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Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced. On combustion, forms: carbon oxides (CO and CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Dermal: Not classified.
Acute toxicity (inhalation) : Not classified

Methyl 9-dodecenoate (39202-17-0)	
LD50 oral rat	rat >2000 mg/kg (OECD 420)
LD50 dermal rabbit	>1000 mg/kg bw/day (OECD 422)

Skin corrosion/irritation: Methyl 9-dodecenoate: Non-irritant (in-vitro) (OECD 439) test conducted on analogue.

Eye damage/ irritation: Methyl 9-dodecenoate: Mild irritant (rabbit eye) (OECD 405) test conducted on analogue.

Respiratory Irritation: No data available

Respiratory Sensitization: No data available

Skin Sensitization: Methyl 9 -dodecenoate: Not classified as a sensitizer based on the results of a mouse local lymph node assay (OECD 429) and expert review (test conducted on analogue).

Germ Cell Mutagenicity: Methyl 9-dodecenoate: Negative bacterial (Ames) gene mutation test (OECD 471). Negative in-vitro chromosome aberration (human lymphocyte) test (OECD 473) and negative in-vitro mammalian cell (mouse lymphoma) gene mutation test (OECD 476) tests conducted on analogue.

Carcinogenicity: No data available. None of the components of this product are listed as carcinogens by IARC or the EU Dangerous Substances Directive.

Reproductive Toxicity: Methyl 9-dodecenoate: No reproductive or developmental effects observed in screening study; rat oral NOEL >1000 mg/kg bw/day (OECD 422) test conducted on analogue.

Specific Target Organ Toxicity:

Single Exposure: Methyl 9-dodecenoate: No significant effects observed in an acute oral toxicity study.

Repeat Exposure: Methyl 9-dodecenoate: No significant effects observed in repeated dose study; rat oral

NOAEL >1000 mg/kg bw/day (OECD 422) test conducted on analogue.

SECTION 12: Ecological information

12.1. Toxicity

12.1 Toxicity: Methyl 9-dodecenoate: Fish (fathead minnow) 72 hr LC50 no effects at saturation concentration (OECD 203); *Daphnia magna* 48 hr EC50 0.50 mg/L (OECD 202); Algae (*Pseudokirchneriella subcapitata*) 96 hr ErC50 green algae >0.077 mg/L (OECD 201).

12.2 Persistence and degradability: Methyl 9-dodecenoate: Readily biodegradable (OECD 301F).

12.3 Bio accumulative Potential: Methyl 9-dodecenoate: Log Pow 5.85-5.96 (OECD 117) which indicates a potential for bioaccumulation, however an estimated BCF of 153 L/kg and ready biodegradability indicates a low potential for bioaccumulation.

12.4 Mobility in Soil: Methyl 9-dodecenoate: Adsorption/desorption Coefficient Log Koc 3.93 (OECD 121).

12.5 Results of PBT and vPvB assessment: This substance is not PBT or vPvB.

12.6 Other Adverse Effects: No data available.

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SECTION 13: Disposal considerations

13.1. Disposal methods

- Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

14.1. Basic shipping description

Department of Transportation (DOT)

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	Not applicable	Not regulated	Not applicable	Not applicable	Not applicable
Canadian TDG	Not applicable	Not regulated	Not applicable	Not applicable	Not applicable
EU ADR/RID	UN3082	Environmentally Hazardous Substance, liquid, n.o.s. (9-Dodecenoic acid, methyl ester)	9	III	Yes
IMDG	UN3082	Environmentally Hazardous Substance, liquid, n.o.s. (9-Dodecenoic acid, methyl ester)	9	III	Marine Pollutant
IATA/ICAO	UN3082	Environmentally Hazardous Substance, liquid, n.o.s. (9-Dodecenoic acid, methyl ester)	9	III	Yes

14.6 Special Precautions for User: None

14.7 Transport in Bulk According to Annex II MARPOL 73/78 and the IBC Code: Not determined

SECTION 15: Regulatory information

15.1. National regulations

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

U.S. REGULATIONS

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.

EPA SARA 311 HAZARD CLASSIFICATION: Not hazardous

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313:

None known

CALIFORNIA PROPOSITION 65: This product contains the following chemicals which are known to the State of

California to cause cancer, reproductive toxicity or birth defects (developmental toxicity): None known

EPA TSCA INVENTORY: All components are listed on the TSCA inventory.

15.2. International regulations

EU-Regulations EUROPEAN UNION: Methyl 9-dodecenoate has been registered under REACH.

No additional information available

National regulations

No additional information available

SECTION 16: Other information

NFPA Rating: Health: 1 Fire: 1 Instability: 0
HMIS Rating: Health: 1 Fire: 1 Physical Hazard: 0

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Revision date : 11/30/2018

CLP/GHS Classification and H Phrases for Reference (See Section 3)

H400 Very toxic to aquatic life.

WE RECOMMEND THAT CONTAINERS BE EITHER PROFESSIONALLY RECONDITIONED FOR RE-USE BY CERTIFIED FIRMS OR PROPERLY DISPOSED OF BY CERTIFIED FIRMS TO HELP REDUCE THE POSSIBILITY OF AN ACCIDENT. DISPOSAL OF CONTAINERS SHOULD BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. "EMPTY" DRUMS SHOULD NOT BE GIVEN TO INDIVIDUALS.

Other information : **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

SDS Canada (GHS)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product