



Carrier
Safety Data Sheet
{Reserved}

Issue Date: 2017-12-20

Supersedes Date: 2017-05-17

1. Identification

Product Name: Carrier

PCP Registration No.: 30639

Refer to the approved product label for handling and use instructions.

Product Type: Adjuvant, for use with various herbicides

Supplier: Nufarm Agriculture Inc.
Suite 350, 2618 Hopewell Place NE
Calgary, Alberta, T1Y 7J7, Canada
1-800-868-5444

Telephone Numbers: 24 Hour Emergency Response Number, Chemtrec, 1-800-424-9300.
For medical emergencies, ProPharma Group, 1-877-325-1840.
For product and use information, Nufarm Agriculture Inc.,
1-800-868-5444.

2. Hazard Identification

Classified according to UN GHS Version 5.

Physical Hazards:

None

Health Hazards:

Skin irritation	Category 2
Eye irritation	Category 2B
Acute toxicity (Oral)	Category 5
Acute toxicity (Dermal)	Category 5
Acute toxicity (Inhalation)	Category 5

Environmental Hazards:

None

Signal Word:

WARNING

Hazard Statements:

Causes skin irritation. Causes eye irritation. May be harmful if swallowed. May be harmful in contact with skin. May be harmful if inhaled.



Precautionary Statements:

Causes skin irritation. Avoid contact with skin, eyes and clothing. Wear chemical-resistant gloves. Rinse gloves before removal. Remove and wash contaminated clothing before reuse. After use, wash hands and other exposed skin.

Causes eye irritation. Wear goggles or face shield during mixing/loading. Wash concentrate from skin or eyes immediately.

May be harmful if swallowed, in contact with skin or inhaled. Do not eat, drink or smoke when using this product. Avoid breathing spray mist. Use only outdoors or in a well-ventilated area.

3. Composition / Information on Ingredients
--

Hazardous Components	CAS No.	Wt. %
White mineral oil	8042-47-5	48-52
Surfactant blend	Not applicable	38-42

Other ingredients are considered non-hazardous.

Content as Expressed on Product Label
Mineral Oil ... 50%
Surfactant blend ... 40%

4. First Aid Measures

If swallowed, call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

If in eyes, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you, when seeking medical attention.

5. Fire-fighting Measures

Extinguishing Media: Water fog, alcohol foam, carbon dioxide, dry chemical.

Special Firefighting Procedures: Firefighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Minimize and contain water runoff.

Issue Date: 2017-12-20

Supersedes Date: 2017-05-17

Flash Point:..... 103 C

Conditions of Flammability: Not classed as a combustible liquid, but may burn under fire conditions.

Hazardous Decomposition Products: ... Under fire conditions, may produce gases such as carbon oxides and possibly other irritating gases.

National Fire Protection Association (NFPA) Hazard Rating:

Rating for this product: Health: 0 Flammability: 1 Reactivity: 0
Hazards Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

6. Accidental Release Measures

Use safety equipment and procedures appropriate to the size of the spill. Keep unnecessary people away. Avoid runoff to natural waters and sewers. Surround and absorb spills with inert material such as perlite, sawdust, clay granules, vermiculite, sand or dirt. Contain all affected material in a closed, labeled container for proper disposal. Isolate from other waste materials. Clean contaminated area such as hard surfaces with detergent and water, collecting cleaning solution for proper disposal. Large spills to soil or similar surfaces may necessitate removal of top soil.

7. Handling and Storage

Handling: Avoid contact with skin, eyes and clothing. Wear chemical-resistant gloves. Rinse gloves before removal. Remove and wash contaminated clothing before reuse. After use, wash hands and other exposed skin. Wear goggles or face shield during mixing/loading. Wash concentrate from skin or eyes immediately. Do not eat, drink or smoke when using this product.
Storage: Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. Do not store near sources of heat. Do not allow water to be introduced to the contents of this container.

8. Exposure Controls / Personal Protection

Engineering Controls: Use only outdoors or in a well-ventilated area.
Personal Protective Equipment: Goggles or face shield and chemical-resistant gloves. Rinse gloves before removal.
Exposure Guidelines:

Component	TWA*	STEL**	Reference/Note
White mineral oil	5 mg/m ³	N/E	ACGIH TLV, OSHA PEL
Other Ingredients	N/E	N/E	None found

*Time-weighted Average, 8-hour unless otherwise noted.

**Short Term Exposure Limit

NE = Not Established

Refer to approved product label for additional exposure control guidance.

9. Physical and Chemical Properties
--

NOTE: Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification. If no value is determined for the formulation, the value listed is the most relevant value of the predominant ingredient(s).

Appearance (physical state, colour, etc.)	clear yellow liquid
Odour	mild organic, oily
Odour threshold	not available
pH	4.6 (1% w/w dilution)
Melting point / Freezing point	not available
Initial boiling point and boiling range	not available
Flash point	103C
Evaporation rate	<1 (n-butyl acetate = 1) (white mineral oil)
Flammability (solids, gases)	not applicable
Upper / Lower flammability or explosive limits	not available
Vapour pressure	<0.013 kPa (white mineral oil)
Vapour density	>1 (air = 1) (white mineral oil)
Relative density	0.884 @ 24C
Solubility(ies)	product is emulsifiable in water
Partition coefficient: n-octanol/water	>6 (white mineral oil)
Autoignition temperature	not available
Decomposition temperature	not available
Viscosity	27 mPa(s) @ 24C

10. Stability and Reactivity

Reactivity: Not reactive.

Chemical Stability: Stable under normal handling and storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Excessive heat. Do not store near heat or flame.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Under fire conditions, may produce gases such as carbon oxides and possibly other irritating gases.

11. Toxicological Information

Likely routes of exposure: Inhalation, ingestion, skin and eye contact.

Eye contact: Causes eye irritation.

Skin contact: Causes skin irritation. May be harmful in contact with skin.

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled.

Medical Conditions Aggravated by Exposure: Skin exposure may aggravate preexisting skin conditions. Inhalation of mist may aggravate preexisting respiratory conditions.

Toxicological Data:

Issue Date: 2017-12-20

Supersedes Date: 2017-05-17

Acute oral LD₅₀ (mg/kg) >2000 mg/kg (Rat, female)
Acute dermal LD₅₀ (mg/kg) >2000 mg/kg (Rat, estimate)
Acute inhalation LC₅₀ (mg/l) >5.0 mg/L (Rat, 4-hour exposure, estimate)
Skin corrosion/irritation Moderately irritating to the skin (Rabbit)
Serious eye damage/irritation Moderately irritating to the eye (Rabbit)
Respiratory or skin sensitization ... Not considered a skin sensitizer
Germ cell mutagenicity No specific data available. Not expected to be genotoxic or mutagenic. Information available on white mineral oil indicates no remarkable toxicological effects.
Carcinogenicity No specific data available. Not expected to be carcinogenic. Information available on white mineral oil indicates no remarkable toxicological effects.
Reproductive toxicity No specific data available. Not expected to be a reproductive toxin.

12. Ecological Information

Ecotoxicity:

No specific data available. Product is potentially harmful to aquatic invertebrates and fish.

Persistence and Degradability: Product may be moderately persistent. Degradation in the environment is expected to occur by microbial biotransformation and hydrolysis. White mineral oil is not readily biodegradable.

Mobility in Soil: No specific data available. Not expected to be mobile in soil.

Bioaccumulation Potential: White mineral oil has a high bioaccumulation potential.

13. Disposal Considerations

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Disposal should be made in accordance with federal, provincial and local regulations.

Do not reuse container for any purpose. If applicable, return container in accordance with return program. If a recyclable container, dispose of at a container collection site. Contact local distributor, dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site, triple or pressure rinse the empty container adding rinsings to spray tank, and make container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

Issue Date: 2017-12-20

Supersedes Date: 2017-05-17

14. Transport Information

Canadian TDG Description (Road & Rail): Not regulated for transport by road/rail.

United States:

DOT Description:

Not Regulated

IMDG

Not Regulated

IATA

Not Regulated

15. Regulatory Information

Pest Control Products Act Registration Number: 30639

OPAC Schedule: 3

Read the approved label, authorized under the *Pest Control Products Act*, prior to using or handling the pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the *Pest Control Products Act*. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control product label:

WARNING – SKIN AND EYE IRRITANT

WHMIS exempt.

16. Other Information

This Safety Data Sheet (SDS) is designed to comply with the Globally Harmonized System (GHS) of classification, and the *Hazardous Products Regulations*.

This SDS provides important health, safety and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use. The product labeling provides that information specifically for product use as intended.

Carrier
Safety Data Sheet
{Reserved}

Issue Date: 2017-12-20

Supersedes Date: 2017-05-17

Company and published information is used in the development of this SDS. The information herein is presented in good faith and believed accurate at the date of publication. However, no warranty, expressed or implied, is given.

Revisions to the last issue: Addition of PMRA guidance info to Section 15.

Issue Date: 2017-12-20

Supersedes Date: 2017-05-17