

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## GATEWAY™ Adjuvant

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/18/2024	800080004187	Date of first issue: 11/18/2024

Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

### SECTION 1. IDENTIFICATION

Product name : GATEWAY™ Adjuvant  
Other means of identification : No data available

#### Manufacturer or supplier's details

##### COMPANY IDENTIFICATION

Manufacturer/importer : CORTEVA AGRISCIENCE CANADA COMPANY  
SUITE 240, 115 QUARRY PARK RD. SE  
CALGARY AB, T2C 5G9  
CANADA

Customer Information : 800-667-3852  
Number  
E-mail address : solutions@corteva.com

Emergency telephone : Corteva Canada Solutions: 1-800-667-3852  
number

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

Recommended use : Adjuvants

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the Hazardous Products Regulations

Eye irritation : Category 2B

Aspiration hazard : Category 1

#### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters airways.  
H320 Causes eye irritation.

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P331 Do NOT induce vomiting.

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P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Components**

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified	Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified	64742-55-8	>= 60 - < 70 *
Alkylphenol alkoxyate	Alkylphenol alkoxyate	69029-39-6	>= 10 - < 20 *
Alcohols, C12-15, ethoxylated	Alcohols, C12-15, ethoxylated	68131-39-5	>= 10 - < 20 *
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5	>= 3 - < 10 *
naphthalene	naphthalene	91-20-3	>= 0.3 - < 1 *

\* Actual concentration or concentration range is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

- If inhaled : Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.
- In case of skin contact : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- In case of eye contact : Hold eyes 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 eyes. Call a poison control center or doctor for treatment advice.  
Suitable emergency eye wash facility should be available in work area.
- If swallowed : Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : None known.

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|----------------------------|---|---|
| Protection of first-aiders | : | First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).<br>If potential for exposure exists refer to Section 8 for specific personal protective equipment.   |
| Notes to physician         | : | If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.<br>The decision of whether to induce vomiting or not should be made by a physician.<br>No specific antidote.<br>Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.<br>Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment. |
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### SECTION 5. FIREFIGHTING MEASURES

- |   |   |   |
|---|---|---|
| Suitable extinguishing media                  | : | Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical  |
| Unsuitable extinguishing media                | : | None known.   |
| Specific hazards during fire-fighting         | : | Exposure to combustion products may be a hazard to health.<br>Container may rupture from gas generation in a fire situation.<br>Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.<br>Dense smoke is produced when product burns. |
| Specific extinguishing methods                | : | Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.                                       |
| Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if necessary.<br>Use personal protective equipment.  |
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |  |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.   |
| Environmental precautions   | : | Discharge into the environment must be avoided.<br>Prevent further leakage or spillage if safe to do so.<br>Prevent spreading over a wide area (e.g. by containment or oil barriers).<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages cannot be contained. |

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Methods and materials for containment and cleaning up : Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, recovered material should be stored in a vented container.  
The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-pressurization of the container.  
Keep in suitable, closed containers for disposal.  
Wipe up with absorbent material (e.g. cloth, fleece).  
See Section 13, Disposal Considerations, for additional information.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.  
Avoid breathing vapor or mist.  
Smoking, eating and drinking should be prohibited in the application area.  
Take care to prevent spills, waste and minimize release to the environment.  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Conditions for safe storage : Store in a closed container.  
Keep in properly labelled containers.  
Store in accordance with the particular national regulations.

Materials to avoid : Strong oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified	64742-55-8	TWA (Mist)	5 mg/m3	CA AB OEL
		STEL (Mist)	10 mg/m3	CA AB OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
		TWAEV (Mist - Inhalable dust)	5 mg/m3	CA QC OEL
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
Alkylphenol alkoxyolate	69029-39-6	TWA	2 mg/m3	Dow IHG
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5	TWA	100 mg/m3	Corteva OEL
		STEL	300 mg/m3	Corteva OEL
		TWA	200 mg/m3	CA AB OEL

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			(total hydrocarbon vapor)	
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
naphthalene	91-20-3	TWA	10 ppm	Dow IHG
		STEL	15 ppm	Dow IHG
		TWA	10 ppm 52 mg/m3	CA AB OEL
		STEL	15 ppm 79 mg/m3	CA AB OEL
		TWA	10 ppm	CA BC OEL
		TWAEV	10 ppm	CA QC OEL
		TWA	10 ppm	ACGIH

**Engineering measures** : Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

**Personal protective equipment**  
Respiratory protection : Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

Hand protection  
Remarks : Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Chlorinated polyethylene. Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Viton. Examples of acceptable glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Eye protection : Use chemical goggles.  
Skin and body protection : Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid.

Colour : Yellow

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Odour	:	Aromatic
Odour Threshold	:	No data available
pH	:	7.2 Concentration: 10 % Method: CIPAC MT 75.2
Melting point/ range	:	Not applicable
Freezing point	:	No data available
Boiling point/boiling range	:	> 180 °C Method: Literature
Flash point	:	> 100 °C  Method: Pensky-Martens Closed Cup ASTM D 93, closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable to liquids
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	0.880 g/cm <sup>3</sup> (20 °C) Method: Digital density meter
Solubility(ies) Water solubility	:	Emulsion
Auto-ignition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	No decomposition if stored and applied as directed. Stable under normal conditions.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	Exposure to elevated temperatures can cause product to decompose.

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Incompatible materials : Generation of gas during decomposition can cause pressure in closed systems.  
: Strong oxidizing agents

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

- Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg  
Method: OECD Test Guideline 423  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Information source: Internal study report
- Acute inhalation toxicity : LC50 (Rat): > 5.58 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Information source: Internal study report
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Information source: Internal study report

##### Components:

#### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

- Acute oral toxicity : Remarks: Very low toxicity if swallowed.  
Harmful effects not anticipated from swallowing small amounts.  
May cause abdominal discomfort or diarrhea.  
LD50 (Rat): > 5,000 mg/kg  
Remarks: For similar material(s):
- Acute dermal toxicity : Remarks: Prolonged skin contact is unlikely to result in absorption of harmful amounts.  
LD50 (Rabbit): > 5,000 mg/kg  
Remarks: For similar material(s):

#### **Alkylphenol alkoxyate:**

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
- Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg

#### **Alcohols, C12-15, ethoxylated:**

- Acute oral toxicity : Remarks: Low toxicity if swallowed.  
Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.  
LD50 (Rat): 1,200 mg/kg
- Acute dermal toxicity : Remarks: Prolonged skin contact is unlikely to result in absorption of harmful amounts.

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LD50 (Rat): 5,000 mg/kg

**Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
- Acute inhalation toxicity : LC50 (Rat): > 11.4 mg/l  
Exposure time: 6 h  
Test atmosphere: dust/mist
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**naphthalene:**

- Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
- Lethal Dose (Humans): 5 - 15 grams  
Method: Estimated.  
Remarks: Excessive exposure may cause hemolysis, thereby impairing the blood's ability to transport oxygen.  
Ingestion of naphthalene by humans has caused hemolytic anemia.  
Toxicity from swallowing may be greater in humans than in animals.  
In humans, symptoms may include:  
Confusion.  
Lethargy.  
Muscle spasms or twitches.  
Convulsions.  
Coma.

- Acute inhalation toxicity : Remarks: Excessive exposure may cause irritation to upper respiratory tract (nose and throat).  
Excessive exposure may cause lung injury.  
Signs and symptoms of excessive exposure may include:  
Headache.  
Confusion.  
Sweating.  
Nausea and/or vomiting.

LC50 (Rat): > 0.41 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Symptoms: The LC50 value is greater than the Maximum Attainable Concentration.  
Assessment: The substance or mixture has no acute inhalation toxicity

- Acute dermal toxicity : LD50 (Rat): > 2,500 mg/kg  
Remarks: Human case reports suggest Naphthalene may be absorbed through the skin in toxic amounts, especially in children.

LD50 (Rabbit): > 2,500 mg/kg



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### **Skin corrosion/irritation**

#### **Product:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Mild skin irritation  
Remarks : Information source: Internal study report

#### **Components:**

##### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Result : No skin irritation

##### **Alkylphenol alkoxyate:**

Species : Rabbit  
Result : No skin irritation

##### **Alcohols, C12-15, ethoxylated:**

Result : Skin irritation

### **Serious eye damage/eye irritation**

#### **Product:**

Species : Rabbit  
Result : Mild eye irritation  
Method : OECD Test Guideline 405  
Remarks : Information source: Internal study report

#### **Components:**

##### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Result : No eye irritation

##### **Alkylphenol alkoxyate:**

Species : Rabbit  
Result : No eye irritation

##### **Alcohols, C12-15, ethoxylated:**

Result : Corrosive

### **Respiratory or skin sensitisation**

#### **Product:**

Test Type : Local lymph node assay (LLNA)  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 429  
Remarks : Information source: Internal study report

#### **Components:**

##### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Species : Guinea pig  
Result : Does not cause skin sensitisation.  
Remarks : For similar material(s):

##### **Alkylphenol alkoxyate:**

Species : Guinea pig  
Result : Does not cause skin sensitisation.

##### **Alcohols, C12-15, ethoxylated:**

Species : Guinea pig  
Result : Does not cause skin sensitisation.

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### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Species : Humans  
Result : Does not cause skin sensitisation.

### **naphthalene:**

Species : Guinea pig  
Result : Does not cause skin sensitisation.

### **Germ cell mutagenicity**

#### **Components:**

#### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative in some cases and positive in other cases., Animal genetic toxicity studies were negative.

#### **Alkylphenol alkoxyate:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative.

#### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

### **naphthalene:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative in some cases and positive in other cases.

### **Carcinogenicity**

#### **Product:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

#### **Components:**

#### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Carcinogenicity - Assessment : Contains naphthalene which has caused cancer in some laboratory animals., In humans, there is limited evidence of cancer in workers involved in naphthalene production. Limited oral studies in rats were negative., Limited evidence of carcinogenicity in animal studies

### **naphthalene:**

Carcinogenicity - Assessment : Has caused cancer in some laboratory animals., In humans, there is limited evidence of cancer in workers involved in naphthalene production. Limited oral studies in rats were negative., Limited evidence of carcinogenicity in animal studies

### **Reproductive toxicity**

#### **Components:**

#### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Typical for this family of materials., Has been toxic to the fetus in laboratory animals at doses toxic to the mother.

#### **Alkylphenol alkoxyate:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction., In animal studies, did not interfere with fertility. Did not cause birth defects or any other fetal effects in laboratory animals.

#### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Reproductive toxicity - Assessment : Available data are inadequate to determine effects on reproduction.

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**naphthalene:** For similar material(s);, Did not cause birth defects or any other fetal effects in laboratory animals.

Reproductive toxicity - Assessment : Available data are inadequate to determine effects on reproduction.  
Did not cause birth defects in laboratory animals.

### STOT - single exposure

**Product:**  
Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

### Components:

#### Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

#### Alkylphenol alkoxyate:

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### Alcohols, C12-15, ethoxylated:

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

#### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Exposure routes : Inhalation  
Target Organs : Nervous system  
Assessment : May cause drowsiness or dizziness.

#### naphthalene:

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

### STOT - repeated exposure

**Product:**  
Assessment : Evaluation of available data suggests that this material is not an STOT-RE toxicant.

### Repeated dose toxicity

#### Components:

#### Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

Remarks : For similar material(s):  
In animals, effects have been reported on the following organs:  
Adrenal gland.  
Bone marrow.  
Liver.  
Thymus.  
Stomach.  
Lung.

#### Alkylphenol alkoxyate:

Remarks : In animals, effects have been reported on the following organs:  
Kidney.  
Liver.

#### Alcohols, C12-15, ethoxylated:

Remarks : No relevant data found.

#### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Remarks : Excessive exposure to solvent(s) may cause respiratory irritation and central nervous system depression.

#### naphthalene:

Remarks : Observations in animals include:  
Respiratory effects.

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Excessive exposure may cause hemolysis, thereby impairing the blood's ability to transport oxygen. Cataracts and other eye effects have been reported in humans repeatedly exposed to naphthalene vapor or dust. Ingestion of naphthalene by humans has caused hemolytic anemia.

### Aspiration toxicity

#### Product:

May be fatal if swallowed and enters airways.

#### Components:

##### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

May be fatal if swallowed and enters airways.

##### **Alkylphenol alkoxylate:**

Based on physical properties, not likely to be an aspiration hazard.

##### **Alcohols, C12-15, ethoxylated:**

Based on available information, aspiration hazard could not be determined.

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

May be fatal if swallowed and enters airways.

##### **naphthalene:**

Based on physical properties, not likely to be an aspiration hazard.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Toxicity to fish : Remarks: Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h

##### **Alkylphenol alkoxylate:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 4.8 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203 or Equivalent

LC50 (Oncorhynchus mykiss (rainbow trout)): 3.7 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203 or Equivalent

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- Toxicity to daphnia and other aquatic invertebrates : LC50 (*Daphnia magna* (Water flea)): 10.5 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202 or Equivalent
- Toxicity to terrestrial organisms : dietary LC50 (*Apis mellifera* (bees)): > 105 micrograms/bee  
Exposure time: 2 d
- contact LD50 (*Apis mellifera* (bees)): > 100 micrograms/bee  
Exposure time: 2 d
- No Observed Effects Level (NOEL) (*Colinus virginianus* (Bobwhite quail)): 2,250 mg/kg
- oral LD50 (*Colinus virginianus* (Bobwhite quail)): > 2,250 mg/kg

### Ecotoxicology Assessment

- Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

### Alcohols, C12-15, ethoxylated:

- Toxicity to fish : Remarks: Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).
- LC50 (*Pimephales promelas* (fathead minnow)): 2.7 mg/l  
Exposure time: 96 h

- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.4 - 0.75 mg/l  
Exposure time: 48 h

- Toxicity to algae/aquatic plants : EC50 (Algae): < 1 mg/l  
Exposure time: 96 h

### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

- Toxicity to fish : Remarks: Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 2 - 5 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203 or Equivalent

- Toxicity to daphnia and other aquatic invertebrates : EL50 (*Daphnia magna* (Water flea)): 3 - 10 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202 or Equivalent

- Toxicity to algae/aquatic plants : EL50 (*Pseudokirchneriella subcapitata* (green algae)): 11 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201 or Equivalent

- Toxicity to terrestrial organisms : dietary LC50 (*Colinus virginianus* (Bobwhite quail)): > 6,500 ppm  
Exposure time: 5 d  
Remarks: Based on information for a similar material:

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oral LD50 (Colinus virginianus (Bobwhite quail)): > 2,250 mg/kg  
Remarks: Based on information for a similar material:

**naphthalene:**  
Toxicity to fish : Remarks: Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).  
LC50 (Oncorhynchus mykiss (rainbow trout)): 0.11 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.6 - 24.1 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae/aquatic plants : ErC50 (Skeletonema costatum (marine diatom)): 0.4 mg/l  
Exposure time: 72 h  
Test Type: Growth rate inhibition

M-Factor (Acute aquatic toxicity) : 1  
Toxicity to fish (Chronic toxicity) : NOEC (Other): 0.37 mg/l  
End point: mortality  
Exposure time: 40 d  
Test Type: flow-through

M-Factor (Chronic aquatic toxicity) : 1

**Ecotoxicology Assessment**  
Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**Persistence and degradability**  
**Components:**  
**Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**  
Biodegradability : Result: Not biodegradable  
Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F or Equivalent  
Remarks: 10-day Window: Fail

**Alkylphenol alkoxylate:**  
Biodegradability : Result: Not biodegradable  
Remarks: Biodegradation under aerobic laboratory conditions is below detectable limits (BOD20 or BOD28/ThOD < 2.5%). Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Chemical Oxygen Demand (COD) : 1.78 kg/kg  
ThOD : 2.35 kg/kg

**Alcohols, C12-15, ethoxylated:**  
Biodegradability : Result: Readily biodegradable.  
Remarks: Material is expected to be readily biodegradable.

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### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Biodegradability : Result: Not biodegradable  
Biodegradation: 39 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D or Equivalent  
Remarks: 10-day Window: Fail

### **naphthalene:**

Biodegradability : Result: Readily biodegradable.  
Remarks: Biodegradation under aerobic static laboratory conditions is high (BOD<sub>20</sub> or BOD<sub>28</sub>/ThOD > 40%).

Biochemical Oxygen Demand (BOD) : 57.000 %  
Incubation time: 5 d  
  
71.000 %  
Incubation time: 10 d  
  
71.000 %  
Incubation time: 20 d

ThOD : 3.00 kg/kg

Photodegradation : Test Type: Half-life (indirect photolysis)  
Sensitiser: OH radicals  
Concentration: 1,500,000 1/cm<sup>3</sup>  
Rate constant: 2.16E-11 cm<sup>3</sup>/s  
Method: Estimated.

### **Bioaccumulative potential**

#### **Components:**

#### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Partition coefficient: n-octanol/water : Remarks: For this family of materials:  
Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

#### **Alkylphenol alkoxyate:**

Partition coefficient: n-octanol/water : Remarks: No bioconcentration is expected because of the relatively high water solubility.  
May foam in water.

#### **Alcohols, C12-15, ethoxylated:**

Partition coefficient: n-octanol/water : Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Partition coefficient: n-octanol/water : log Pow: 2.9 - 6.1  
Method: Measured  
Remarks: Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

### **naphthalene:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 40 - 300  
Exposure time: 28 d  
Method: Measured

Partition coefficient: n-octanol/water : log Pow: 3.3  
Method: Measured  
Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

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### Mobility in soil

#### Components:

##### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Distribution among environmental compartments : Remarks: No relevant data found.

##### **Alcohols, C12-15, ethoxylated:**

Distribution among environmental compartments : Remarks: No relevant data found.

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Distribution among environmental compartments : Remarks: No relevant data found.

##### **naphthalene:**

Distribution among environmental compartments : Koc: 240 - 1300  
Method: Measured  
Remarks: Potential for mobility in soil is medium (Koc between 150 and 500).

### Other adverse effects

#### Components:

##### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

##### **Alkylphenol alkoxyate:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

##### **Alcohols, C12-15, ethoxylated:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

##### **naphthalene:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.



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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

##### TDG

Not regulated as a dangerous good

#### Further information

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

For Canadian Ground transportation TDG Exemption: 1.45.1 Marine Pollutants (Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, do not apply if they are in transport solely on land by road vehicle or railway vehicle).

### SECTION 15. REGULATORY INFORMATION

#### The components of this product are reported in the following inventories:

DSL : This product contains components that are not listed on the Canadian DSL nor NDSL.

Pest Control Products Act ( PCPA ) Registration Number : 31470

Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this 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 (PCPA). There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label. 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 products label:

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PCPA Label Hazard Communications:  
Read the label and booklet before using. Keep out of reach of children.

CAUTION SKIN AND EYE IRRITANT

Toxic to aquatic organisms.

### SECTION 16. OTHER INFORMATION

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

#### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
Corteva OEL	:	Corteva Occupational Exposure Limit
Dow IHG	:	Dow Industrial Hygiene Guideline
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA AB OEL / STEL	:	15-minute occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA QC OEL / TWAEV	:	Time-weighted average exposure value
Corteva OEL / STEL	:	Short term exposure limit
Corteva OEL / TWA	:	Time weighted average
Dow IHG / TWA	:	Time Weighted Average (TWA):
Dow IHG / STEL	:	Short term exposure limit
Dow IHG / TWA	:	Time weighted average

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - not otherwise specified; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN - United Nations.

DSL - Domestic substances List. WHMIS - Workplace Hazardous Materials Information System.

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The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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