


## 1. Identification

|   |  |                  |
|---|--|------------------|
| <b>Product identifier</b>                                     | <b>MSO Spray Adjuvant</b>  | <b>PCP 33193</b> |
| <b>Other means of identification</b>                          | None.  |                  |
| <b>Recommended use</b>  | Agricultural Adjuvant  |                  |
| <b>Recommended restrictions</b>                               | None known.  |                  |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |  |                  |
| <b>Manufacturer</b>   |  |                  |
| <b>Company name</b>   | Norac Concepts   |                  |
| <b>Address</b>  | P.O. Box 31097<br>Guelph, ON N1H 8K1                               |                  |
| <b>Telephone</b>  | Phone:   | 519-821-3633     |
| <b>E-mail</b>   | <a href="mailto:info@noracconcepts.com">info@noracconcepts.com</a> |                  |
| <b>Emergency phone number</b>                                 | Emergency Phone:   | 613-787-5620     |
| <b>Supplier</b>   | See above.   |                  |

## 2. Hazard identification

|                                 |   |  |            |
|---------------------------------|---|--|------------|
| <b>Physical hazards</b>         | Not classified.   |  |            |
| <b>Health hazards</b>           | Skin corrosion/irritation   |  | Category 2 |
|                                 | Serious eye damage/eye irritation   |  | Category 1 |
| <b>Environmental hazards</b>    | Not classified.   |  |            |
| <b>Label elements</b>           |    |  |            |
| <b>Signal word</b>              | Danger  |  |            |
| <b>Hazard statement</b>         | Causes skin irritation. Causes serious eye damage.  |  |            |
| <b>Precautionary statement</b>  |   |  |            |
| <b>Prevention</b>               | Wash thoroughly after handling. Wear protective gloves. Wear eye protection.  |  |            |
| <b>Response</b>                 | IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Specific treatment (see information on this label). If skin irritation occurs: Get medical attention.<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.   |  |            |
| <b>Storage</b>                  | Store away from incompatible materials.   |  |            |
| <b>Disposal</b>                 | Dispose of container in accordance with local, regional, national and international regulations.  |  |            |
| <b>Other hazards</b>            | None known.   |  |            |
| <b>Supplemental information</b> | This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II). This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.<br><br>Exempt - Registered product - (PCP 33193). |  |            |

## 3. Composition/information on ingredients

### Mixtures

| Chemical name    | Common name and synonyms | CAS number | %   |
|------------------|--------------------------|------------|-----|
| Surfactant Blend |                          | Mixture    | 100 |

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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#### 4. First-aid measures

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|---|---|
| <b>Inhalation</b>   | IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.   |
| <b>Skin contact</b>                                       | 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.   |
| <b>Eye contact</b>  | 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 center or doctor for treatment advice.   |
| <b>Ingestion</b>  | 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.  |
| <b>Most important symptoms/effects, acute and delayed</b> | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.   |
| <b>General information</b>                                | Keep out of reach of children. Avoid contact with eyes and skin. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance.<br><br>NOTICE TO USER This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.<br><br>Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention. |

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#### 5. Fire-fighting measures

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| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide.   |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.                        |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.   |
| <b>Hazardous combustion products</b>                                 | May include and are not limited to: Oxides of carbon.   |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>Fire fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk.                                 |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.    |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.   |

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#### 6. Accidental release measures

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| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.  |
| <b>Methods and materials for containment and cleaning up</b>               | Soak up spill with absorbent material (kitty litter, granular clay, soil) and collect into a waste container. Wash spill site with water after material pick-up and dispose with waste. See DISPOSAL statement below.<br>For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean up of spills.<br>Never return spills to original containers for re-use. |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.  |

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#### 7. Handling and storage

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|---|---|
| <b>Precautions for safe handling</b>                                | Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.   |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in a cool, dry and well-ventilated area. Keep in original container tightly closed in a safe place when not in use. Keep away from food, drink and animal feedstuffs. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. Do not freeze. For optimum storage store above 5° C. |

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## 8. Exposure controls/Personal protection

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| <b>Occupational exposure limits</b>     | No exposure limits noted for ingredient(s).   |
| <b>Biological limit values</b>          | No biological exposure limits noted for the ingredient(s).  |
| <b>Appropriate engineering controls</b> | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. |

### Individual protection measures, such as personal protective equipment

|                            |   |
|----------------------------|---|
| <b>Eye/face protection</b> | Wear safety glasses with side shields (or goggles) and a face shield.       |
| <b>Skin protection</b>     |   |
| <b>Hand protection</b>     | Impervious gloves. Confirm with reputable supplier first.                   |
| <b>Other</b>               | Wear appropriate chemical resistant clothing. As required by employer code. |

During mixing, loading, application, spill clean-up and sprayer clean-up, maintenance or repair, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear. In addition, wear protective eyewear (goggles or face shield) during mixing and loading.

**Respiratory protection** Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary. Not applicable.

**General hygiene considerations** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using do not eat or drink.

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## 9. Physical and chemical properties

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|   |  |
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| <b>Appearance</b>                                   | Liquid   |
| <b>Physical state</b>                               | Liquid.  |
| <b>Form</b>   | Liquid.  |
| <b>Colour</b>                                       | Clear yellow to Amber                            |
| <b>Odour</b>  | Slight   |
| <b>Odour threshold</b>                              | Not available.                                   |
| <b>pH</b>   | Not available.                                   |
| <b>Melting point/freezing point</b>                 | Not available.                                   |
| <b>Initial boiling point and boiling range</b>      | Not available.                                   |
| <b>Flash point</b>                                  | > 93.3 °C (> 199.9 °F) Pensky-Martens Closed Cup |
| <b>Evaporation rate</b>                             | Not available.                                   |
| <b>Flammability (solid, gas)</b>                    | Not applicable.                                  |
| <b>Upper/lower flammability or explosive limits</b> |  |
| <b>Flammability limit - lower (%)</b>               | Not available.                                   |
| <b>Flammability limit - upper (%)</b>               | Not available.                                   |
| <b>Explosive limit - lower (%)</b>                  | Not available.                                   |
| <b>Explosive limit - upper (%)</b>                  | Not available.                                   |
| <b>Vapour pressure</b>                              | Not available.                                   |
| <b>Vapour density</b>                               | Not available.                                   |
| <b>Relative density</b>                             | 0.89 @ 20°C                                      |
| <b>Solubility(ies)</b>                              |  |
| <b>Solubility (water)</b>                           | Dispersible                                      |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                                   |
| <b>Auto-ignition temperature</b>                    | Not available.                                   |
| <b>Decomposition temperature</b>                    | Not available.                                   |
| <b>Viscosity</b>                                    | Not available.                                   |

## Other information

|                      |                |
|----------------------|----------------|
| Explosive properties | Not explosive. |
| Oxidising properties | Not oxidising. |

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## 10. Stability and reactivity

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|                                    |   |
|------------------------------------|---|
| Reactivity                         | The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions. |
| Chemical stability                 |   |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use.   |
| Conditions to avoid                | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not mix with other chemicals.                       |
| Incompatible materials             | Strong oxidising agents. Strong acids. Strong bases.  |
| Hazardous decomposition products   | May include and are not limited to: Oxides of carbon.   |

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## 11. Toxicological information

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### Information on likely routes of exposure

|              |  |
|--------------|--|
| Inhalation   | No adverse effects due to inhalation are expected. |
| Skin contact | Causes skin irritation.                            |
| Eye contact  | Causes serious eye damage.                         |
| Ingestion    | May cause stomach distress, nausea or vomiting.    |

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

### Information on toxicological effects

Acute toxicity Not known.

| Product            | Species                 | Test Results         |
|--------------------|-------------------------|----------------------|
| MSO Spray Adjuvant | PCP 33193 (CAS Mixture) |                      |
| Acute              |                         |                      |
| <i>Dermal</i>      |                         |                      |
| LD50               | Rabbit                  | > 5000 mg/kg, Tested |
| <i>Oral</i>        |                         |                      |
| LD50               | Rat                     | > 5000 mg/kg, Tested |

Skin corrosion/irritation Causes skin irritation.

|                  |                |
|------------------|----------------|
| Exposure minutes | Not available. |
| Erythema value   | Not available. |
| Oedema value     | Not available. |

Serious eye damage/eye irritation Causes serious eye damage.

|                              |                |
|------------------------------|----------------|
| Corneal opacity value        | Not available. |
| Iris lesion value            | Not available. |
| Conjunctival reddening value | Not available. |
| Conjunctival oedema value    | Not available. |
| Recover days                 | Not available. |

### Respiratory or skin sensitisation

|                           |   |
|---------------------------|---|
| Respiratory sensitisation | Not a respiratory sensitizer.                             |
| Skin sensitisation        | This product is not expected to cause skin sensitisation. |

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Not classified.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects. Not classified.

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure Not classified.

|                     |                           |
|---------------------|---------------------------|
| Aspiration hazard   | Not an aspiration hazard. |
| Chronic effects     | Not available.            |
| Further information | Not available.            |

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## 12. Ecological information

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|                               |   |
|-------------------------------|---|
| Ecotoxicity                   | Not available.  |
| Persistence and degradability | No data is available on the degradability of any ingredients in the mixture.  |
| Bioaccumulative potential     |   |
| Mobility in soil              | No data available.  |
| Mobility in general           | Not available.  |
| Other adverse effects         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

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## 13. Disposal considerations

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|---------------------------------------|--|
| Disposal instructions                 | <p>For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean up of spills.</p> <p>FOR DISPOSAL OF PLASTIC JUGS: Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site.</p> <ol style="list-style-type: none"> <li>1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.</li> <li>2. Make the empty, rinsed container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.</li> </ol> <p>FOR REFILLABLE CONTAINERS: For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose. If the container is not being refilled, refer to the section FOR DISPOSAL OF PLASTIC JUGS.</p> <p>EMERGENCY TELEPHONE NUMBER: All hours, (613) 787-5620 ONLY for health and environmental information.</p> |
| Local disposal regulations            | Dispose in accordance with all applicable regulations.   |
| Hazardous waste code                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).   |
| Contaminated packaging                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.   |

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## 14. Transport information

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| General  | Canada: TDG Proof of Classification: Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below. |
| Transportation of Dangerous Goods (TDG - Canada) | Not regulated as dangerous goods.   |

## 15. Regulatory information

### Canadian federal regulations

This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II).

This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

Read the approved PCPA label 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:

**DANGER - SKIN AND EYE IRRITANT**

Warning, contains the allergen soy.

**READ THE LABEL BEFORE USING.  
KEEP OUT OF REACH OF CHILDREN.**

**REGISTRATION NO. 33193 PEST CONTROL PRODUCTS**

**ACT PRECAUTIONS:**

**HANDLING:** During mixing, loading, application, spill clean-up and sprayer clean-up, maintenance or repair, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear. In addition, wear protective eyewear (goggles or face shield) during mixing and loading. Severely irritating to the eye. **DO NOT** get in eyes. Causes skin irritation. **DO NOT** get on skin. Wash thoroughly with soap and water after handling. Avoid breathing spray mist. Store away from food or feed. Do not contaminate water supplies, wetland areas, or any body of water by direct application, spray drift or when cleaning and rinsing spray equipment or containers.

When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

**RESTRICTED ENTRY:** Workers must not enter treated fields within the restricted entry interval stated on the label of the pesticide applied in conjunction with MSO SPRAY ADJUVANT.

### Export Control List (CEPA 1999, Schedule 3)

Not listed.

### Greenhouse Gases

Not listed.

### Precursor Control Regulations

Not regulated.

### International regulations

#### WHMIS classification

Exempt - Registered product - (PCP 33193)

#### Inventory status

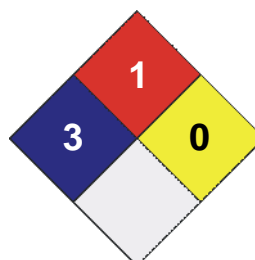
| Country(s) or region | Inventory name                      | On inventory (yes/no)* |
|----------------------|-------------------------------------|------------------------|
| Canada               | Domestic Substances List (DSL)      | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL) | No                     |

\*A 'Yes' indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. Other information

| LEGEND   |   |
|----------|---|
| Severe   | 4 |
| Serious  | 3 |
| Moderate | 2 |
| Slight   | 1 |
| Minimal  | 0 |

|                            |   |          |
|----------------------------|---|----------|
| <b>HEALTH</b>              | / | <b>3</b> |
| <b>FLAMMABILITY</b>        |   | <b>1</b> |
| <b>PHYSICAL HAZARD</b>     |   | <b>0</b> |
| <b>PERSONAL PROTECTION</b> |   | <b>X</b> |



**Issue date** Oct 15, 2019.  
**Revision date** March 6, 2020.  
**Version No.** 02

**Other information** For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

**Disclaimer** The information in the safety data sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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