

# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** PREV-AM

Other means of identification

Product code 009-F-1-A

Recommended use of the chemical and restrictions on use

Recommended use Pesticide. None known. Restrictions on use

**Details of manufacturer or importer** 

**Company Name:** Oro Agri, Inc.

> 2788 S. Maple Ave. Fresno, CA 93725

+1 (559) 442-4996 Telephone Number:

**Emergency Telephone Number:** Incident Spill, Leak, Fire, Exposure or Accident

> Call CHEMTREC Day or Night Within Australia: +(61)-290372994 Outside Australia: +1 (703) 741-5970

sds-na@rovensanext.com Email:

## 2. Hazard(s) identification

Classification of the hzardous chemical

**Physical hazards** Flammable liquids Category 3 **Health hazards** Category 4 Acute toxicity, inhalation Skin corrosion/irritation Category 2 Category 2A Serious eye damage/eye irritation **Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 2

Hazardous to the aquatic environment, long-term hazard Category 2

#### Label elements, including precautionary statements

Hazard symbol(s)







Flame

Exclamation Environment

Signal word Warning

Hazard statement(s) Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. Toxic

to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed.

Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapors. Wash thoroughly after handling. Use only outdoors or

in a well-ventilated area. Wear protective gloves/eye protection/face protection.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with Response

> water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use water fog, foam, dry

chemical powder, carbon dioxide (CO2) for extinction.

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009F1A-AU-0003, Version 4 Revision Date: 15 April 2025 **Storage** Store in a well-ventilated place. Keep cool.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in

classification

None known.

Supplemental information

None.

# 3. Composition/information on ingredients

#### Mixture

Identity of chemical ingredients	CAS number and other unique	Concentration of ingredients
	identifiers	(%)
Proprietary Mixture <sup>1</sup>		
Orange Oil	8028-48-6	5 - 10
Composition comments	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Components not listed are either non-hazardous or are below reportable limits.	

#### 4. First-aid measures

# Description of necessary first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial

respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

<sup>1</sup>Components CAS numbers and exact concentration have been withheld as a trade secret.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs:

Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Personal protection for first-aid

responders

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical

advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

Symptoms caused by exposure

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin

irritation. May cause redness and pain. Harmful if inhaled.

Medical attention and special treatment Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

## 5. Fire-fighting measures

**Extinguishing media** 

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the

chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of

ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so

without risk.

Hazchem code None.

**General fire hazards** Flammable liquid and vapor.

**Specific methods**Use standard firefighting procedures and consider the hazards of other involved materials.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

#### For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during cleanup. Use personal protection recommended in Section 8 of the SDS.

#### **Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# and cleaning up

Methods and materials for containment Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.

> Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

## 7. Handling and storage

## Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

# Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls and personal protection

**Control parameters** 

Follow standard monitoring procedures.

## **Occupational exposure limits**

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Туре	Value	
Butylated hydroxytoluene (CAS 128-	-37- TWA	10 mg/m3	
0)			
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	

## Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Туре	Value	
Butylated hydroxytoluene	(CAS 128-37- TWA	10 mg/m3	
0)			

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Butylated hydroxytoluene (CAS 128-3	37- TWA	2 mg/m3	Inhalable fraction and vapor.
0)			
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
UK. EH40 Workplace Exposure Limits (WELs)			
Components	Туре	Value	

10 mg/m3

Λ١

Sodium Hydroxide (CAS 1310-73-2) STEL 2 mg/m3

#### Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Туре	Value	Form
Butylated hydroxytoluene (CAS 128-37	- TWA	10 mg/m3	Vapor and aerosol, inhalable
Biological limit values	No biological exposure limits note	ed for the ingredient(s).	
Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air che per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use prenclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels be recommended exposure limits. If exposure limits have not been established, maintain airborne lean acceptable level. Provide eyewash station. Provide easy access to water supply and eye wash facilities.		ions. If applicable, use process aintain airborne levels below hed, maintain airborne levels to

## Individual protection measures, for example personal protective equipment (PPE)

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure limits

(where applicable) or to an acceptable level (in countries where exposure limits have not been

established), an approved respirator must be worn.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Observe any medical surveillance requirements. When using do not smoke. 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.

## 9. Physical and chemical properties

**Appearance** 

Physical stateLiquid.FormLiquid.

Color Green (Various).

OdorCitrus.Odor thresholdNot available.pH6.0 - 8.0Melting point/freezing pointNot available.Initial boiling point and boiling rangeNot available.

Flash point 118.4 °F (48.0 °C) Pensky-Martens Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit – lower (%)
Flammability limit – upper (%)
Explosive limit - lower (%)
Explosive limit - upper (%)
Not available.
Not available.
Vapor pressure
Vapor density
Relative density
Solubility(ies)
Not available.
1.0 - 1.2 g/ml

Solubility (water)

Partition coefficient (n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

O - 300 mPa·s

Other physical and chemical parameters

**Explosive properties** Not explosive.

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Oxidizing properties Not oxidizing.

10. Stability and reactivity

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 Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash

point. Contact with incompatible materials.

Incompatible materials Strong acids.

**Hazardous decomposition products** Thermal decomposition of this product can generate carbon monoxide and carbon dioxide. Sodium

oxides. Sulfur oxides.

# 11. Toxicological information

Information on possible routes of exposure

Inhalation Harmful if inhaled. Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion May cause discomfort if swallowed.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin Symptoms related to exposure

irritation. May cause redness and pain. Harmful if inhaled.

Acute toxicity Harmful if inhaled.

**Product** Species **Test Results** 

PREV-AM (CAS Mixture)

**Acute** Dermal Liauid

LD50 > 2000 mg/kg Rat

Inhalation

aerosol/vapour

LC50 Rat > 2.13 mg/l

Oral

Liauid

LD50 Rat > 2000 mg/kg

Skin corrosion/irritation

Irritation Corrosion - Skin

PREV-AM **OECD 404** 

Result: Irritating to skin

Causes serious eye irritation.

Species: Rabbit

Causes skin irritation.

Serious eye damage/irritation

Eye PREV-AM

**OECD 405** 

Result: Irritating to eyes.

Species: Rabbit

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization

Sensitization

This product is not expected to cause skin sensitization.

PREV-AM **OECD 406** 

> Result: Non-sensitizing Species: Guinea pig

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

genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

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Reproductive toxicity Not classified. The product contains a small amount of substance that is suspected of damaging fertility

or the unborn child.

Specific target organ toxicity - single

exposure

Not classified.

Specific target organ toxicity -repeated

exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard** 

**Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results
PREV-AM (CAS Mixture)			
	LOEC		5.93 mg/l, 72 h
Aquatic			
Algae	EC50	Algae	6.21 - 7.6 mg/l, 72 h
	NOEC	Algae	2.32 mg/l, 72 h
Crustacea	EC50	Daphnia	11 mg/l, 48 h
Fish	LC50	Fish	13.6 mg/l, 96 h
Persistence and degradability			
Bioaccumulative potential	No data available for this product.		
Mobility in soil	No data available for this product.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential,		

13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

endocrine disruption, global warming potential) are expected from this component.

**Residual waste** 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.

14. Transport information

**ADG** Not regulated as dangerous goods. IATA Not regulated as dangerous goods. **IMDG** Not regulated as dangerous goods.

Transport in bulk according to Annex II Not established. of MARPOL 73/78 and the IBC Code

**Additional information** 

Test results from Sustained Combustion testing (L.2 of Part 3 section 32 of UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria) indicate that this material does not sustain combustion. At the discretion of the shipper, this material does not need to be considered a Dangerous Good when offered for transport by road or rail according to the ADG Code chapter 2.3.1.3(a), by air according to IATA DGR section 3.3.1.3(a), or by sea according to IMDG Code chapter 2.3.1.3.1.

## 15. Regulatory information

Safety, health and environmental regulations

**National regulations** This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the

preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10) Not listed.

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#### National Pollutant Inventory (NPI) substance reporting list

Not listed.

#### **Prohibited Carcinogenic Substances**

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

#### **Restricted Carcinogenic Substances**

Not regulated.

#### International regulations

#### **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

#### Kyoto protocol

Not applicable.

#### **Montreal Protocol**

Not applicable.

#### **Basel Convention**

Not applicable.

#### **International Inventories**

Inventory name	On inventory (yes/no)*
Australian Inventory of Chemical Substances (AICS)	Yes
Domestic Substances List (DSL)	Yes
Non-Domestic Substances List (NDSL)	No
Inventory of Existing Chemical Substances in China (IECSC)	Yes
European Inventory of Existing Commercial Chemical Substances	No
(EINECS)	
European List of Notified Chemical Substances (ELINCS)	No
Inventory of Existing and New Chemical Substances (ENCS)	No
Existing Chemicals List (ECL)	Yes
New Zealand Inventory	Yes
Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Toxic Substances Control Act (TSCA) Inventory	No
	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Existing Chemicals List (ECL) New Zealand Inventory Philippine Inventory of Chemicals and Chemical Substances (PICCS)

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

**Revision date:** Refer to date in footer

**SDS version:** Refer to version number in footer

**Disclaimer** ORO AGRI cannot anticipate all conditions under which this information and its product, or the products

of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. As conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained in accordance with all

applicable occupational health and safety requirements.

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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