

# **Safety Data Sheet**

Issuing Date 18-Jan-2019 Revision Date 18-Jan-2019 Revision Number 4

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name AXAREL™ 4000

Other means of identification

Product Code AX4000 UN-No UN3082

Recommended use of the chemical and restrictions on use
Recommended Use Technical cleaning solvent.
Uses advised against FOR INDUSTRIAL USE ONLY

Details of the supplier of the safety data sheet

Supplier Address Vantage Specialties, Inc.

3938 Porett Drive Gurnee, IL 60031, USA

847-244-3410

**Emergency Telephone Number** 

**Company Phone Number** +1-847-244-3410

Emergency Telephone Number CHEMTREC International: +1-703-527-3887

# 2. HAZARDS IDENTIFICATION

# Classification

| Skin corrosion/irritation                        | Category 2  |
|--|-------------|
| Serious eye damage/eye irritation                | Category 2B |
| Skin sensitization                               | Category 1  |
| Specific target organ toxicity (single exposure) | Category 3  |
| Aspiration toxicity                              | Category 1  |
| Flammable Liquid                                 | Category 4  |

## **Label Elements**

#### **EMERGENCY OVERVIEW**

# DANGER

## Hazard statements

May be fatal if swallowed and enters airways

Causes skin irritation
Causes eye irritation

May cause drowsiness or dizziness May cause an allergic skin reaction

H410 - Very toxic to aquatic life with long lasting effects

Combustible liquid



Color Colorless Physical State Liquid Odor Citrus

#### **Precautionary Statements - Prevention**

Keep away from flames and hot surfaces. — No smoking. Wear protective gloves/eye protection/face protection Avoid breathing vapors or mists Avoid release to the environment

## **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

IF ON SKIN: Rinse exposed skin with plenty of water. If skin irritation occurs: get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Get medical advice/attention if you feel unwell

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.

IN CASE OF FIRE: Use CO2, dry chemical, ABC fire extinguisher, or foam for extinction

Collect spillage

#### **Precautionary Statements - Storage**

Store in a well-ventilated place Store locked up

## **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with applicable regulations.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                           | CAS No.    | Weight-% |
|---|------------|----------|
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | 60-100   |
| D-Limonene                              | 5989-27-5  | 5 - 25   |

## 4. FIRST AID MEASURES

## **FIRST AID MEASURES**

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If irritation persists, call a physician.

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

with water/shower. If irritation or rash occurs, get medical attention.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT

induce vomiting.

**Self-protection of the first aider**Use personal protective equipment.

Most important symptoms and effects, both acute and delayed

**Symptoms** Skin irritation, allergic reaction.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Dry chemical. Foam. Carbon dioxide. Water. Class ABC/BC fire

extinguisher.

Unsuitable extinguishing media None known.

Hazardous combustion products Carbon oxides.

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge No.

<u>Protective equipment and precautions for firefighters</u>
As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent) and

full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment. Avoid contact with eyes, skin and clothing.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

**Environmental precautions** Prevent release to surface water.

Methods and material for containment and cleaning up

**Methods for Containment** Dike to collect large liquid spills.

**Methods for Cleaning Up**Absorb with inert material and transfer to containers for disposal.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Handling Wear personal protective equipment. Avoid contact with eyes, skin and clothing. Do not

breathe mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

**Storage** Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Manufacturer recommended exposure limit (8-hour TWA) for CAS 64742-48-9: 171 ppm,

1200 mg/m<sup>3</sup>.

**Appropriate engineering controls** 

**Engineering Measures** Eyewash stations. Showers. Ventilation systems.

Individual protection measures, such as personal protective equipment

Safety glasses with side-shields. **Eye/Face Protection** 

**Skin and Body Protection** Long sleeved clothing. Wear personal protective equipment as required.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Physical State** Liquid

Odor **Appearance** Clear Citrus

Not determined Color Colorless **Odor threshold** 

Property Values Remarks • Method

pН Not Applicable Melting point / freezing point

Not determined

190 - 205 °C / 374 - 401 °F Boiling point / boiling range

64 °C / 147 °F **Flash Point** CC (closed cup)

**Evaporation Rate** 

Flammability (solid, gas) May burn if exposed to open flame.

Not determined Flammability Limit in Air

Upper flammability limit

**Lower Flammability Limit** 

Vapor pressure 8.0 mm Hg Vapor Density (air = 1)>1 @ 25°C **Specific Gravity** 0.77

**Water Solubility** Insoluble

Solubility in other solvents Not determined **Partition coefficient** Not Applicable **Autoignition Temperature** Not determined **Decomposition temperature** Not determined @ 20 °C Kinematic viscosity 1.54 cps

**Dynamic viscosity** Not determined

**Explosive Properties** None

**Oxidizing Properties** None

**Other Information** 

#### 10. STABILITY AND REACTIVITY

Reactivity Not reactive

Remarks

Chemical stability Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** 

Hazardous Reactions None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Conditions to Avoid** Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Strong oxidizing agents.

## **Hazardous Decomposition Products**

None identified.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

#### **Product Information**

**Inhalation** May cause drowsiness and dizziness.

**Eye contact** May cause irritation.

**Skin contact** Irritating to skin. May cause sensitization by skin contact.

**Ingestion** Potential for aspiration if swallowed.

| Chemical Name                     | Oral LD50                       | Dermal LD50           | Inhalation LC50        |
|-----------------------------------|---------------------------------|-----------------------|------------------------|
| Naphtha (petroleum), hydrotreated | > 6000 mg/kg (Rat)              | > 3160 mg/kg (Rabbit) | > 8500 mg/m³ (Rat) 4 h |
| heavy                             |                                 |                       |                        |
| 64742-48-9                        |                                 |                       |                        |
| D-Limonene                        | = 4400 mg/kg (Rat) = 5200 mg/kg | > 5 g/kg (Rabbit)     | -                      |
| 5989-27-5                         | (Rat)                           |                       |                        |

## Information on toxicological effects

**Symptoms** No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationIrritating to skin.Serious eye damage/eye irritationMay cause irritation.

**Sensitization** Repeated or prolonged contact may cause allergic reactions in very susceptible persons.

Mutagenic Effects No known hazard.

**Carcinogenicity** Contains no listed human carcinogens at greater than 0.1%.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---------------|-------|------|-----|------|
| D-Limonene    |       |      |     | X    |
| 5989-27-5     |       |      |     |      |

Reproductive Toxicity No known hazard.

STOT - single exposure Inhalation of vapors may cause dizziness and drowsiness.

**STOT - repeated exposure** No known hazard.

**Aspiration hazard** May be fatal if swallowed and enters airways.

Not determined

toxicity-Product Information

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life

| Chemical Name  | Toxicity to Algae | Toxicity to Fish                            | Microtox | Daphnia Magna (Water<br>Flea)                 |
|--|-------------------|---|----------|---|
| Naphtha (petroleum),<br>hydrotreated heavy<br>64742-48-9 |                   | LC50= 2200 mg/L<br>Pimephales promelas 96 h |          | LC50: >1000 mg/l                              |
| D-Limonene<br>5989-27-5                                  |                   | LC50= 35 mg/L<br>Oncorhynchus mykiss 96 h   |          | LC50 (48h): 0.58 - 0.92 mg/l<br>Daphnia magna |

|  | LC50 0.619 - 0.796 mg/L  |          |
|--|--------------------------|----------|
|  | Pimephales promelas 96 h | <u> </u> |

## Persistence and degradability

No data available.

#### **Bioaccumulation/Accumulation**

d-Limonene BCF: 683

#### **Mobility**

Expected to partition to air.

#### Other Adverse Effects

# 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable regulations.

#### Waste treatment methods

**Contaminated Packaging** 

Waste Disposal Method Dispose of in accordance with applicable regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name | California Hazardous Waste Status |
|---------------|-----------------------------------|
| D-Limonene    | Toxic                             |
| 5989-27-5     |                                   |

# 14. TRANSPORT INFORMATION

DOT

**UN-No** UN3082

Proper Shipping Name Environmentally hazardous substane, Liquid, N.O.S. (d-Limonene)

Hazard Class 9
Packing Group III
Marine Pollutant Yes.

UN-No UN3082
Hazard Class 9
Packing Group III

IATA

UN-No UN3082

Proper Shipping Name Environmentally hazardous substane, Liquid, N.O.S. (d-Limonene)

Hazard Class 9
Packing Group III

IMDG / IMO

UN-No UN3082

Proper Shipping Name Environmentally hazardous substane, Liquid, N.O.S. (d-Limonene)

Hazard Class9Packing GroupIIIMarine PollutantYes

UN-No UN3082 Hazard Class 9 Packing Group III

UN-No UN3082 Hazard Class 9 Packing Group III

## 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies Complies DSL Complies **EINECS** Complies **ENCS** Complies **IECSC KECL** Complies Complies **PICCS** Complies **AICS** 

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard Yes
Sudden release of pressure hazard No
Reactive Hazard No

## **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

# **U.S. State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

# U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

## 16. OTHER INFORMATION

NFPA Health Hazard 1 Flammability 2 Instability 0 Physical and Chemical Hazards n/a

HMIS Health Hazard 1 Flammability 2 Physical hazards 0 Personal Precautions B

Prepared by Product Steward Issuing Date 18-Jan-2019 Revision Date 18-Jan-2019 Revision Note

Reason for Revision Periodic review and update

**Disclaimer** 

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.

**End of Safety Data Sheet** 

AXAREL is a trademark of Vantage Specialties, Inc.

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