



Safety Data Sheet

Issuing Date 13-May-2015

Revision Date 13-May-2015

Revision Number 2

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 Vantage Specialties, Inc.

Address 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

CHEMTREC USA: 1-800-424-9300

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 and vapor | 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

Very toxic to aquatic life with long lasting effects

Combustible liquid



| | | |
|------------------------|------------------------------|--------------------|
| Color Colorless | Physical State Liquid | Odor Citrus |
|------------------------|------------------------------|--------------------|

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/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 local regulation

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No. | Weight % |
|---------------------------|------------|----------|
| Isoparaffinic Hydrocarbon | 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. In the case of skin irritation or allergic reactions see a physician. |
| 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. |
| Protection of First-aiders | 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

| | |
|---|--|
| <u>Suitable extinguishing media</u> | Dry chemical. Foam. Carbon dioxide. Water. Class ABC/BC fire extinguisher. |
| Unsuitable extinguishing media | None identified. |
| 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 skin, eyes, 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 skin, eyes, and clothing. Do not breathe vapors or spray mist. |
|-----------------|---|

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 ³ . |
|----------------------------|--|

Appropriate engineering controls

| | |
|-----------------------------|---|
| Engineering Measures | Eyewash stations. Showers. Ventilation systems. |
|-----------------------------|---|

Individual protection measures, such as personal protective equipment

| | |
|----------------------------|-----------------------------------|
| Eye/face Protection | Safety glasses with side-shields. |
|----------------------------|-----------------------------------|

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 | Citrus |
| Appearance | Clear | Odor threshold | Not determined |
| Color | Colorless | | |
| Property | Values | Remarks • Method | |
| pH | | Not Applicable | |
| Melting point/freezing point | | Not determined | |
| Boiling point/boiling range | 190 - 205 °C / 374 - 401 °F | | |
| Flash Point | 64 °C / 147 °F | Closed cup | |
| Evaporation Rate | | Not determined | |
| Flammability (solid, gas) | | May burn if exposed to open flame. | |
| Flammability Limits in Air | | Not determined | |
| Upper flammability limits | | | |
| Lower Flammability Limit | | | |
| Vapor pressure | 0.8 | mm Hg | |
| Vapor Density | >1 | (air = 1) | |
| Specific Gravity | 0.77 | @ 25°C | |
| Water Solubility | Insoluble | | |
| Solubility in other solvents | | Not determined | |
| Partition coefficient | | Not Applicable | |
| Autoignition Temperature | | Not determined | |
| Decomposition temperature | | Not determined | |
| Kinematic viscosity | 1.54 cps | @ 20 °C | |
| 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 | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|----------------------|-------------------------|-----------------|
| Isoparaffinic Hydrocarbon 64742-48-9 | > 5000 mg/kg (Rat) | > 3160 mg/kg (Rabbit) | n/a |
| D-Limonene 5989-27-5 | = 4400 mg/kg (Rat) | > 5 g/kg (Rabbit) | - |

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/irritation Irritating to skin.
Serious eye damage/eye irritation May 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%.

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.

Numerical measures of toxicity-Product Information Not determined

12. ECOLOGICAL INFORMATION

Yes.

Ecotoxicity

Very toxic to aquatic life

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Microtox | Daphnia Magna (Water Flea) |
|---|-------------------|---|----------|---|
| Isoparaffinic Hydrocarbon 64742-48-9 | | LC50= 2200 mg/L Pimephales promelas 96 h | | |
| D-Limonene 5989-27-5 | | LC50 (96h) 0.62 - 0.8 mg/L Pimephales promelas | | LC50 (48h): 0.58 - 0.92 mg/l Daphnia magna |

Persistence and degradability

No data available.

Bioaccumulation/Accumulation

d-Limonene BCF: 683

Mobility

Expected to partition to air.

Other Adverse Effects

None identified

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Dispose of in accordance with applicable regulations.

Contaminated Packaging 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 5989-27-5 | Toxic |

14. TRANSPORT INFORMATION

DOT

UN-No UN3082
Proper Shipping Name Environmentally hazardous substance, Liquid, N.O.S. (d-Limonene)
Hazard Class 9
Packing Group III
Marine Pollutant Yes.

IATA

UN-No UN3082
Proper Shipping Name Environmentally hazardous substance, Liquid, N.O.S. (d-Limonene)
Hazard Class 9
Packing Group III

IMDG / IMO

UN-No UN3082
Proper Shipping Name Environmentally hazardous substance, Liquid, N.O.S. (d-Limonene)
Hazard Class 9
Packing Group III
Marine Pollutant Yes

15. REGULATORY INFORMATION

International Inventories

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

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU 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
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Revision Note
Reason for Revision Update to supplier identity/logo

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 MSDS

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