

# COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

CIN: U21009KA2023PTC179006

**Registered address:** FFK Towers, #445, 2nd & 3rd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

**Email:** info@scimplify.com

**Website:** www.scimplify.com



## SAFETY DATA SHEET

### 1. IDENTIFICATION

Product Description: SAFRALEINE®

CAS # 54440-17-4

FEMA Number 4556

Company - COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

Registered address: FFK Towers, #445, 2nd & 3rd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

Website: www.scimplify.com

### 2. HAZARD(S) IDENTIFICATION

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 5

Acute toxicity, dermal Category 5

Skin corrosion/irritation Category 2

Environmental hazards Hazardous to the aquatic environment, acute hazard Category 3

Hazardous to the aquatic environment, long-term hazard Category 3

Label elements



Signal word Warning

Hazard statement

H303 + H313

May be harmful if swallowed or in contact with skin.

H315

Causes skin irritation.

H402

Harmful to aquatic life.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention

P264

Wash thoroughly after handling.

P273

Avoid release to the environment.

P280

Wear protective gloves.

# COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

CIN: U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd & 3rd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

Website: www.scimplify.com



|                                           |                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Response                                  |                                                                                                     |
| P302 + P352                               | IF ON SKIN: Wash with plenty of water.                                                              |
| P312                                      | Call a POISON CENTER/doctor if you feel unwell.                                                     |
| P332 + P313                               | If skin irritation occurs: Get medical advice/attention.                                            |
| P362 + P364                               | Take off contaminated clothing and wash it before reuse.                                            |
| Storage                                   | Store away from incompatible materials.                                                             |
| Disposal                                  |                                                                                                     |
| P501                                      | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | None known.                                                                                         |

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

| Chemical name                  | Common name and synonyms                                                                                                   | CAS number | %   |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------|-----|
| 2,3,3-trimethyl-2H-inden-1-one | 1H- inden-1-one, 2,3-dihydro-2,3,3-trimethyl<br>3,3,2- trimethyl-1-indanone<br>2,3- dihydro-2,3,3-trimethyl-1H-inden-1-one | 54440-17-4 | 100 |

## 4. FIRST-AID MEASURES

|                                                                        |                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation                                                             | If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.                                        |
| Skin contact                                                           | Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.                                                                              |
| Eye contact                                                            | Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.                                                                      |
| Ingestion                                                              | Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. |
| Most important symptoms/effects, acute and delayed                     | Skin irritation. May cause redness and pain.                                                                                                                                                                                                          |
| Indication of immediate medical attention and special treatment needed | Not available.                                                                                                                                                                                                                                        |
| General information                                                    | 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.                                                                             |

## 5. FIRE-FIGHTING MEASURES

|                                            |                                                                    |
|--------------------------------------------|--------------------------------------------------------------------|
| Suitable extinguishing media               | Water spray, fog, CO2, dry chemical, or alcohol resistant foam.    |
| Unsuitable extinguishing media             | Do not use a solid water stream as it may scatter and spread fire. |
| Specific hazards arising from the chemical | Fire may produce irritating, corrosive and/or toxic gases.         |

# COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

CIN: U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd & 3rd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

Website: www.scimplify.com



|                                                               |                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special protective equipment and precautions for firefighters | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.    |
| Fire fighting equipment/instructions                          | In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control. |
| Specific methods                                              | Use water spray to cool unopened containers.                                                                                                                                                                                                                                                                                                                                           |
| General fire hazards                                          | Static charges generated by emptying package in or near flammable vapor may cause flash fire.                                                                                                                                                                                                                                                                                          |

## 6. ACCIDENTAL RELEASE MEASURES

|                                                                     |                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.                                |
| Methods and materials for containment and cleaning up               | Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. |

The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 13 of the SDS.

|                           |                                                                                                                                                                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment. |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 7. HANDLING AND STORAGE

|                                                              |                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling                                | Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling. |
| Conditions for safe storage, including any incompatibilities | Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.                                                                                                                                                                             |

# COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

CIN: U21009KA2023PTC179006

**Registered address:** FFK Towers, #445, 2nd & 3rd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

**Email:** info@scimplify.com

**Website:** www.scimplify.com



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Use explosion-proof ventilation equipment to stay below exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Chemical resistant gloves.

Other

Not available.

Respiratory protection

Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. 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

Refer to Spec Sheet

Physical state

Liquid.

Form

Liquid.

Color

Refer to Spec Sheet

Odor

Characteristic.

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling range

Not available.

Flash point

> 200.0 °F (> 93.3 °C) Closed Cup

# COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

CIN: U21009KA2023PTC179006

**Registered address:** FFK Towers, #445, 2nd & 3rd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

**Email:** info@scimplify.com

**Website:** www.scimplify.com



|                                              |                     |
|----------------------------------------------|---------------------|
| Evaporation rate                             | Not available.      |
| Flammability (solid, gas)                    | Not applicable.     |
| Upper/lower flammability or explosive limits |                     |
| Flammability limit - lower (%)               | Not available.      |
| Flammability limit - upper (%)               | Not available.      |
| Explosive limit - lower (%)                  | Not available.      |
| Explosive limit - upper (%)                  | Not available.      |
| Vapor pressure                               | 0.01 mm Hg at 25 °C |
| Vapor density                                | 6                   |
| Relative density                             | Not available.      |
| Solubility(ies)                              |                     |
| Solubility (water)                           | Insoluble           |
|                                              |                     |
| Partition coefficient (n-octanol/water)      | Not available.      |
| Auto-ignition temperature                    | 483.8 °F (251 °C)   |
| Decomposition temperature                    | Not available.      |
| Viscosity                                    | Not available.      |
| Other information                            |                     |
| Molecular formula                            | C12H14O             |
| Molecular weight                             | 174.24 g/mol        |
| Specific gravity                             | 1.02 at 25 °C       |

## 10. STABILITY AND REACTIVITY

|                                    |                                                                                               |
|------------------------------------|-----------------------------------------------------------------------------------------------|
| Reactivity                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability                 | Material is stable under normal conditions.                                                   |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use.                                   |
| Conditions to avoid                | Avoid temperatures exceeding the flash point. Contact with incompatible materials.            |
| Incompatible materials             | Strong oxidizing agents.                                                                      |
| Hazardous decomposition products   | No hazardous decomposition products if stored and handled as indicated.                       |

# COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

CIN: U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd & 3rd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

Website: www.scimplify.com



## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Inhalation   | No adverse effects due to inhalation are expected.                                   |
| Skin contact | May be harmful in contact with skin. Causes skin irritation.                         |
| Eye contact  | Direct contact with eyes may cause temporary irritation. Causes mild eye irritation. |
| Ingestion    | May be harmful if swallowed.                                                         |

### Symptoms related to the physical, chemical and toxicological characteristics

Skin irritation. May cause redness and pain.

### Information on toxicological effects

Acute toxicity May be harmful if swallowed. May be harmful in contact with skin.

| Product | Species | Test Results |
|---------|---------|--------------|
|---------|---------|--------------|

2,3,3-trimethyl-2H-inden-1-one (CAS 54440-17-4)

Acute

Dermal

LD50

Rabbit

> 2000 mg/kg OECD Test Guideline 402

Oral

LD50

Rat

> 2000 mg/kg OECD Test Guideline 423

\* Estimates for product may be based on additional component data not shown.

### Skin corrosion/irritation

Causes skin irritation.

Species: rabbit

Skin irritation

Method: OECD Test Guideline 404

### Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.

Species: rabbit

No eye irritation

Method: OECD Test Guideline 405

### Respiratory or skin sensitization

#### Respiratory sensitization

Not a respiratory sensitizer.

#### Skin sensitization

HRIPT Human

Result: Not sensitizing

at 10% in Diethyl phthalate/ Ethanol

LLNA mouse

Result: Not sensitizing

Method: OECD Test Guideline 429

Phototoxicity

UV-VIS absorption spectra

Results: negative

# COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

CIN: U21009KA2023PTC179006

**Registered address:** FFK Towers, #445, 2nd & 3rd Floor, 17th Cross Road, Sector 4,  
HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

**Email:** info@scimplify.com

**Website:** www.scimplify.com



## Germ cell mutagenicity

### Genotoxicity in vitro:

Ames test

negative

Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)

### Chromosome aberration test in vitro

positive

Method: Mutagenicity (in vitro mammalian cytogenetic test)

### Genotoxicity in vivo

Micronucleus test Species: mouse

Method: Mutagenicity (micronucleus test)

## Carcinogenicity

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

### Specific target organ toxicity - single exposure

Not classified.

### Specific target organ toxicity - repeated exposure

Target Organ Systemic Toxicant - Repeated exposure

Species: rat, male and female

NOAEL: 450 mg/kg

Method: OECD Test Guideline 407

Repeated dose (28 days) toxicity (oral)

### Aspiration hazard

Not an aspiration hazard.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic life with long lasting effects.

#### Product

#### Species

#### Test Results

2,3,3-trimethyl-2H-inden-1-one (CAS 54440-17-4)

Aquatic

Acute

Crustacea

EC50

Daphnia magna

27 mg/l, 48 hours OECD Test Guideline  
202

\* Estimates for product may be based on additional component data not shown.

### Persistence and degradability

#### Biodegradability

Result: Not readily biodegradable

0%

Method: OECD Test Guideline 301F

Result: Not inherently biodegradable

0%

Method: OECD Test Guideline 302C

### Bioaccumulative potential

No data available.

### Mobility in soil

No data 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.

# COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

CIN: U21009KA2023PTC179006

**Registered address:** FFK Towers, #445, 2nd & 3rd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

**Email:** info@scimplify.com

**Website:** www.scimplify.com



## 13. DISPOSAL CONSIDERATIONS

|                                       |                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disposal instructions                 | Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Local disposal regulations            | Dispose in accordance with all applicable regulations.                                                                                                                                                                                                                                                              |
| Hazardous waste code                  | Not established.                                                                                                                                                                                                                                                                                                    |
| Waste from residues / unused products | 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                | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.                                                                                                          |

## 14. TRANSPORT INFORMATION

### ADN

Not regulated as dangerous goods.

### ADR

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

### DOT

### BULK

Not regulated as dangerous goods.

### DOT

### NON-BULK

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

## 15. REGULATORY INFORMATION

|                                                                    |                                                                                                                |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| US federal regulations                                             | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. |
| CERCLA Hazardous Substance List (40 CFR 302.4)                     | Not listed.                                                                                                    |
| US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) | Not listed.                                                                                                    |
| SARA 304 Emergency release notification                            | Not regulated.                                                                                                 |
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)     | Not listed.                                                                                                    |
| TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)      | Not regulated.                                                                                                 |

# COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

CIN: U21009KA2023PTC179006

**Registered address:** FFK Towers, #445, 2nd & 3rd Floor, 17th Cross Road, Sector 4,  
HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

**Email:** info@scimplify.com

**Website:** www.scimplify.com



## Superfund Amendments and Reauthorization Act of 1986 (SARA)

|                   |                        |
|-------------------|------------------------|
| Hazard categories | Immediate Hazard - Yes |
|                   | Delayed Hazard - No    |
|                   | Fire Hazard - No       |
|                   | Pressure Hazard - No   |
|                   | Reactivity Hazard - No |

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical      No

SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)      Not regulated.

## US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

# COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

CIN: U21009KA2023PTC179006

**Registered address:** FFK Towers, #445, 2nd & 3rd Floor, 17th Cross Road, Sector 4,  
HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

**Email:** info@scimplify.com

**Website:** www.scimplify.com



## International Inventories

| Country(s) or region        | Inventory name                                                         | On inventory (yes/no)* |
|-----------------------------|------------------------------------------------------------------------|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | No                     |
| Canada                      | Domestic Substances List (DSL)                                         | No                     |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | Yes                    |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | No                     |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)                                          | No                     |
| New Zealand                 | New Zealand Inventory                                                  | No                     |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

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

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).

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

|               |                                                    |
|---------------|----------------------------------------------------|
| Issue date    | 11-23-2015                                         |
| Revision date | 02-18-2015                                         |
| Version #     | 01                                                 |
| HMIS® ratings | Health: 2<br>Flammability: 1<br>Physical hazard: 0 |