

THE AROMAVERSE-FZCO

**** MATERIAL SAFETY DATA SHEET ****

Aivergustral (TRP)

Section 1 - Chemical Product and Company Identification

MSDS Name : Aivergustral (TRP)

Synonyms : 4-formyl-1,3-dimethylcyclohex-1-ene 2,4-DIMETHYL-3-CYCLOHEXEN-1-CARBOXALDEHYDE 3-Cyclohexene-1-carboxaldehyde, 2,4-dimethylDIMETHYLCYCLOHEX3-ENE-1-CARBALDEHYDE (MIXED ISOMERS)

Company Identification THE AROMAVERSE-FZCO

A6-3648479202, Premises No. A6-003-B,
IFZA Business Park, DDP, DUBAI, UNITED ARAB EMIRATES.

Email: info@aromaverse.net

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	%	EINECS#
68039-49-6	Aivergustral (TRP)	99%Min	-

Physical hazards Flammable liquids Category 4

Health hazards Acute toxicity, oral Category 5

Skin corrosion/irritation Category 2

Sensitization, skin Category 1B

Hazardous to the aquatic environment, Category 2

acute hazard

Environmental hazards

Hazardous to the aquatic environment, Category 2

long-term hazard

Label elements



Signal word Warning

Hazard statement

THE AROMAVERSE-FZCO

Combustible liquid. May be harmful if swallowed. Causes skin irritation. May cause an allergic

skin reaction. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No

smoking.

Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing

should not be allowed out of the workplace. Avoid release to the environment. Wear protective

gloves/protective clothing/eye protection/face protection.

Response

IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. If

skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and

wash it before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.



A handwritten signature in blue ink, appearing to be 'M. M. M.', written over a horizontal line.

Storage

Store in a well-ventilated place.

Disposal

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

100% of the mixture consists of component(s) of unknown acute dermal toxicity. 100% of the

THE AROMAVERSE-FZCO

mixture consists of component(s) of unknown acute inhalation toxicity.

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

POTENTIAL HEALTH EFFECTS

Eye	May cause irritation in the eyes
Skin	May cause irritation on the skin
Ingestion	Not Available
Inhalation	Not Available
Chronic	Not Known



Section 4 - First aid Measures

Eyes	Rinse immediately with plenty of water for 10 minutes at least.
Skin	Wash thoroughly with soap and water; flush with plenty of water.
Ingestion	Wash the mouth with water; seek medical advice immediately.
Inhalation	Move from exposure site to fresh air and keep at rest.
Notes to Physician	Treat symptomatically.

Section 5 - Fire Fighting Measures

General Information	Closed containers may build up pressure at elevated temperatures. If possible, containers should be cooled with a water spray.
Extinguishing Media	CO ₂ , foam, dry chemicals.

Section 6 - Accidental Release Measures

General Information	Prevent any contact with hot surfaces. Do not approach facing the wind.
Spills/Leaks	Contain spilled material. Cover with an inert, non-combustible, inorganic absorbent material.

Section 7 - Handling and Storage

Handling	Apply according to good manufacturing and industrial hygiene practices with proper ventilation.
Storage	Store in cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container.

THE AROMAVERSE-FZCO

Section 8 - Exposure Controls, Personal Protection

Engineering Controls Ensure good ventilation of the work station.

PERSONAL PROTECTIVE EQUIPMENT

Eyes Use safety glasses.

Skin Avoid skin contact. Use chemical resistant gloves as needed.

Respirators Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions



Section 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 $> -58\text{ }^{\circ}\text{F}$ ($> -50\text{ }^{\circ}\text{C}$)

Initial boiling point and boiling range $384.8\text{ }^{\circ}\text{F}$ ($196\text{ }^{\circ}\text{C}$)

Flash point $149.0\text{ }^{\circ}\text{F}$ ($65.0\text{ }^{\circ}\text{C}$) Closed Cup

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 0.58 mm Hg at $25\text{ }^{\circ}\text{C}$

Vapor density 4.8

Relative density Not available.

Solubility(ies)

THE AROMAVERSE-FZCO

Solubility (water) Insoluble

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Explosive properties Not explosive.

Flammability class Combustible IIIA estimated

Molecular formula C₉H₁₄O

Molecular weight 138.21 g/mol

Oxidizing properties Not oxidizing.

Specific gravity 0.93 at 25 °C

Section 10 - Stability and Reactivity

Chemical Stability

Stable under normal temp and pressure.

Conditions to Avoid

Avoid contact with strong acids, alkali or oxidizing agents.

Incompatibilities with Other Materials strong acids, alkali or oxidizing agents.

Hazardous Decomposition Products Carbon Monoxide and carbon Dioxide

Hazardous Polymerization

Not Known.



Section 11 - Toxicological Information

Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Dermatitis.

Rash

Information on toxicological effects

Acute toxicity May be harmful if swallowed.

Product Species Test Results

2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE (CAS 68039-49-6)

THE AROMAVERSE-FZCO

Acute

Oral

LD50 Rat 3900 mg/kg

Skin corrosion/irritation

Causes skin irritation.

The substance is classified as a skin irritant (category 2) by IFRA

Irritating effects were observed in different studies (dermal irritation in rabbit according to the

OECD 404 guideline, skin sensitisation in guinea pig according to the OECD 406 guideline and

dermal acute toxicity in rabbit).

Based on these results, the substance is classified as skin irritant category 2 under CLP.

Serious eye damage/eye Irritation

Direct contact with eyes may cause temporary irritation.

The substance is classified as an eye irritant (category 2A) by IFRA

Irritating effects were observed in an eye irritation study conducted in rabbit, however

classification criteria were not met.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization

May cause an allergic skin reaction.

The substance is classified as a skin sensitizer (category 1B) by IFRA

Skin sensitisation effects were observed in a Guinea Pig Maximisation Test (GPMT) conducted

according to the OECD 406 guideline.

Germ cell mutagenicity

The substance was not mutagenic in a Ames test (OECD 471).

In a chromosome aberration test in Chinese hamster ovary cells (OECD 473), a structurally

related substance did not induce numerical chromosome aberrations (with and without

metabolic activation) nor structural aberrations without metabolic activation;

equivocal results were obtained regarding induction of structural aberrations after metabolic

activation. However, this structurally related substance was not mutagenic either in an in vivo

micronucleus test (OECD 474).

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not available.

THE AROMAVERSE-FZCO



Reproductive toxicity

In a one-generation reproduction toxicity study, conducted on a structurally related substance

according to OECD guideline No 415, the No Observed Adverse Effect Level (NOAEL) for

developmental toxicity was established at 25 mg/kg pc/j.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Two repeated dose toxicity studies (28 and 90 days) were conducted in the rat with two

structurally related substances. The 28 days study NOAEL based on decreased body weight in

males was the lowest ; 120 mg/kg pc/j.

Aspiration hazard

Although the substance is a low viscosity and mobile liquid with a kinematic viscosity of 2.243

mm²/s at 20 °C, there is no evidence of aspiration toxicity for this material from either human

experience or from animal toxicity data and it is not a member of a recognized category of

materials having aspiration toxicity potential (i.e. hydrocarbons).

Section 12 - Ecological Information

Other .None Available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Not Regulated	Not Regulated	Not Regulated
Hazard Class:		Regulated	
UN Number:			

THE AROMAVERSE-FZCO

Section 15 - Regulatory Information

European/International Regulations:

European Labeling in Accordance with EC Directives



Hazard Symbols:

Risk Phrases: R20/21/22

R36/37/38

Safety Phrases: Not Available.

United Kingdom Occupational Exposure Limits: Not Known.

Canada : Product is on the DSL list.

Exposure Limits

US FEDERAL

TSCA : Product is listed on the TSCA list.

Section 16 - Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages. -----