

SECTION 1: IDENTIFICATION

1.1 GHS Product identifier: 220902001 - Lyrall Replacer 2207 - Bulkaroma

CAS: Not relevant

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses (Industrial user): Perfume

For Industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Supplier's details:

SAGANLA

No. 20, New Kumaran Nagar 2nd main road, Shollinganallur

600119 Chennai - Tamil Nadu - India

Phone: +91-9840725903

accounts@bulkaroma.com

www.BulkAroma.com

1.4 Emergency phone number: 91-9840725903

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GHS:

Classification of this product has been carried out in accordance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Acute Tox. 5: Acute toxicity if swallowed, Category 5, H303

Aquatic Acute 2: Hazardous to the aquatic environment, acute hazard, Category 2, H401

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411

Repr. 1B: Reproductive toxicity, Category 1B, H360

Skin Irrit. 3: Skin irritation, Category 3, H316

Skin Sens. 1: Sensitisation, skin, Category 1, H317

2.2 GHS label elements, including precautionary statements:

GHS:

Danger



Hazard statements:

Acute Tox. 5: H303 - May be harmful if swallowed.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Repr. 1B: H360 - May damage fertility or the unborn child.

Skin Irrit. 3: H316 - Causes mild skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Precautionary statements:

- CONTINUED ON NEXT PAGE -

SECTION 2: HAZARDS IDENTIFICATION (continued)

P261: Avoid breathing vapours
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
 P302+P352: IF ON SKIN: Wash with plenty of water.
 P391: Collect spillage.
 P405: Store locked up.
 P501: Dispose of the contents/containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

2.3 Other hazards which do not result in classification:

Not relevant

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical description: Mixture composed of preservatives, solvents, perfumes and tensoactives

In accordance with Annex 4.3.3 of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: Not relevant	Confidential Business Information (CBI) Skin Irrit. 3: H316	60 - <80%
CAS: 107-75-5	Hydroxy-citronellal Eye Irrit. 2: H319; Skin Sens. 1: H317 - Warning	<20%
CAS: Not relevant	Confidential Business Information (CBI) Aquatic Acute 3: H402	<20%
CAS: 80-54-6	2-(4-tert-butylbenzyl) propionaldehyde Repr. 1B: H360 - Danger	<20%
CAS: Not relevant	Confidential Business Information (CBI) Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	<20%
CAS: 103694-68-4	3-(2,2-dimethyl-3-hydroxypropyl)toluene Acute Tox. 5: H303; Aquatic Acute 3: H402; Aquatic Chronic 3: H412; Flam. Liq. 4: H227; Skin Irrit. 3: H316	<20%
CAS: Not relevant	Confidential Business Information (CBI) Asp. Tox. 1: H304 - Danger	<20%
CAS: Not relevant	Confidential Business Information (CBI) Eye Irrit. 2: H319 - Warning	<20%
CAS: Not relevant	Confidential Business Information (CBI) Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	<20%

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

3.2 Mixtures:

Not relevant

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

May cause an allergic skin reaction. In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes on the skin (stinging, redness, rashes, blisters), seek medical advice with this Safety Data Sheet

- CONTINUED ON NEXT PAGE -

SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not relevant

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:**Suitable extinguishing media:**

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

Non-applicable

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective actions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:**For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

- CONTINUED ON NEXT PAGE -

SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in fixed places that comply with the necessary security conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to containers of small amounts. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: 5 °C

Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace:

There are no applicable occupational exposure limits for the substances contained in the product

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment (PPE)

- CONTINUED ON NEXT PAGE -

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours (Filter type: A)	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.4 mm)	Replace the gloves at any sign of deterioration.

D.- Eye and face protection

Pictogram	PPE	Remarks
 Mandatory face protection	Face shield	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodily protection

Pictogram	PPE	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks	For professional use only. Clean periodically according to the manufacturer's instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk	Replace boots at any sign of deterioration.

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:	Liquid
Appearance:	Colourless
Color:	Characteristic, Colourless
Odor:	Not relevant *
Odour threshold:	Not relevant *

Volatility:

Boiling point at atmospheric pressure:	287 °C
Vapour pressure at 20 °C:	3.594E-1 Pa
Vapour pressure at 50 °C:	5.34 Pa (0.01 kPa)
Evaporation rate at 20 °C:	Not relevant *

Product description:

Density at 20 °C:	1052.4 kg/m ³
Relative density at 20 °C:	1.052
Dynamic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 40 °C:	Not relevant *
Concentration:	Not relevant *
pH:	Not relevant *
Relative vapour density at 20 °C:	Not relevant *
Partition coefficient n-octanol/water 20 °C:	Not relevant *
Solubility in water at 20 °C:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *

Flammability:

Flash Point:	153 °C
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	210 °C
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

Particle characteristics:

Median equivalent diameter:	Not relevant *
-----------------------------	----------------

9.2 Other information:**Information with regard to physical hazard classes:**

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *

Other safety characteristics:

Surface tension at 20 °C:	Not relevant *
Refraction index:	Not relevant *

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
IARC: White mineral oil, <=20.5mm²/s (40°C) (3): Not classifiable as to its carcinogenicity to humans)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: May damage fertility or the unborn child

E- Sensitizing effects:

- CONTINUED ON NEXT PAGE -

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Confidential Business Information (CBI) CAS: Not relevant	LD50 oral	10000 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation vapour		
Confidential Business Information (CBI) CAS: Not relevant	LD50 oral	920 mg/kg	Rat
	LD50 dermal	7940 mg/kg	Rabbit
	LC50 inhalation dust		
3-(2,2-dimethyl-3-hydroxypropyl)toluene CAS: 103694-68-4	LD50 oral	3000 mg/kg	
	LD50 dermal		
	LC50 inhalation vapour		
Confidential Business Information (CBI) CAS: Not relevant	LD50 oral	> 5000 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation vapour		

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Toxic to aquatic life with long lasting effects.

12.1 Toxicity:

Acute toxicity:

Identification	Concentration	Species	Genus
Hydroxy-citronellal CAS: 107-75-5	LC50	Not relevant	
	EC50	410 mg/L (48 h)	Daphnia magna Crustacean
	EC50	123.32 mg/L (72 h)	Desmodesmus subspicatus Algae
2-(4-tert-butylbenzyl) propionaldehyde CAS: 80-54-6	LC50	2 mg/L (96 h)	Danio rerio Fish
	EC50	11 mg/L (48 h)	Daphnia magna Crustacean
	EC50	29 mg/L (72 h)	Desmodesmus subspicatus Algae
Confidential Business Information (CBI) CAS: Not relevant	LC50	> 0.1 - 1 mg/L (96 h)	Fish
	EC50	> 0.1 - 1 mg/L (48 h)	Crustacean
	EC50	> 0.1 - 1 mg/L (72 h)	Algae
3-(2,2-dimethyl-3-hydroxypropyl)toluene CAS: 103694-68-4	LC50	> 10 - 100 mg/L (96 h)	Fish
	EC50	> 10 - 100 mg/L (48 h)	Crustacean
	EC50	> 10 - 100 mg/L (72 h)	Algae

- CONTINUED ON NEXT PAGE -

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration	Species	Genus
Confidential Business Information (CBI)	LC50	Not relevant	
CAS: Not relevant	EC50	320 mg/L (48 h)	Daphnia magna
	EC50	Not relevant	Crustacean

Chronic toxicity:

Identification	Concentration	Species	Genus
2-(4-tert-butylbenzyl) propionaldehyde	NOEC	0.2 mg/L	Pimephales promelas
CAS: 80-54-6	NOEC	Not relevant	Fish

12.2 Persistence and degradability:**Substance-specific information:**

Identification	Degradability	Biodegradability
Confidential Business Information (CBI)	BOD5	Concentration
CAS: Not relevant	COD	20 mg/L
	BOD5/COD	Period
		28 days
		% Biodegradable
		94.6 %
Hydroxy-citronellal	BOD5	Concentration
CAS: 107-75-5	COD	92 mg/L
	BOD5/COD	Period
		28 days
		% Biodegradable
		80 %
2-(4-tert-butylbenzyl) propionaldehyde	BOD5	Concentration
CAS: 80-54-6	COD	20 mg/L
	BOD5/COD	Period
		28 days
		% Biodegradable
		81 %
Confidential Business Information (CBI)	BOD5	Concentration
CAS: Not relevant	COD	10 mg/L
	BOD5/COD	Period
		28 days
		% Biodegradable
		10 %
Confidential Business Information (CBI)	BOD5	Concentration
CAS: Not relevant	COD	100 mg/L
	BOD5/COD	Period
		28 days
		% Biodegradable
		91 %

12.3 Bioaccumulative potential:**Substance-specific information:**

Identification	Bioaccumulation potential
Confidential Business Information (CBI)	BCF
CAS: Not relevant	Pow Log
	Potential
	13
	2.2
	Low
Hydroxy-citronellal	BCF
CAS: 107-75-5	Pow Log
	Potential
	1.68
2-(4-tert-butylbenzyl) propionaldehyde	BCF
CAS: 80-54-6	Pow Log
	Potential
	275
	4.2
	High
Confidential Business Information (CBI)	BCF
CAS: Not relevant	Pow Log
	Potential
	5.7
Confidential Business Information (CBI)	BCF
CAS: Not relevant	Pow Log
	Potential
	82
	3.45
	Moderate

12.4 Mobility in soil:

Identification	Absorption/desorption	Volatility
Confidential Business Information (CBI)	Koc	Henry
CAS: Not relevant	Conclusion	Dry soil
	Surface tension	Moist soil
		2.6E-2 Pa·m ³ /mol
		Not relevant
		Not relevant
Hydroxy-citronellal	Koc	Henry
CAS: 107-75-5	Conclusion	Dry soil
	Surface tension	Moist soil
		2.42E-3 Pa·m ³ /mol
		Not relevant
		Not relevant

- CONTINUED ON NEXT PAGE -

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility	
2-(4-tert-butylbenzyl) propionaldehyde CAS: 80-54-6	Koc	1285	Henry	2.52 Pa·m ³ /mol
	Conclusion	Low	Dry soil	Yes
	Surface tension	Not relevant	Moist soil	Yes
Confidential Business Information (CBI) CAS: Not relevant	Koc	42	Henry	1.71E-3 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
Confidential Business Information (CBI) CAS: Not relevant	Koc	569	Henry	Not relevant
	Conclusion	Moderate	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant

12.5 Results of PBT and vPvB assessment:

Not relevant

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

Refer to national and local regulations on waste management.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2025 and RID 2025:



14.1 UN number:

UN3082

14.2 UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one)

14.3 Transport hazard class(es):

9

Labels:

9

14.4 Packing group, if applicable:

III

14.5 Environmental hazard:

Yes

14.6 Special precautions for user

Physico-Chemical properties: see section 9

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not relevant

Transport of dangerous goods by sea:

With regard to IMDG 42-24:

220902001 - Lyril Replacer 2207 - Bulkaroma

SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number:** UN3082
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one)
- 14.3 Transport hazard class(es):** 9
Labels: 9
- 14.4 Packing group, if applicable:** III
- 14.5 Marine pollutant:** Yes
- 14.6 Special precautions for user**
Special regulations: 375, 335, 274, 969
EmS Codes: F-A, S-F
Physico-Chemical properties: see section 9
Limited quantities: 5 L
Segregation group: Not relevant
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2026:



- 14.1 UN number:** UN3082
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one)
- 14.3 Transport hazard class(es):** 9
Labels: 9
- 14.4 Packing group, if applicable:** III
- 14.5 Environmental hazard:** Yes
- 14.6 Special precautions for user**
Physico-Chemical properties: see section 9
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989
The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories(Amendment) Act, 1987 (Act 20 of 1987)
The chemical accidents (emergency planning, preparedness, and response) rules, 1996
Public Liability Insurance Act, 1991

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Annex 4 - Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Texts of the legislative phrases mentioned in section 2:

- CONTINUED ON NEXT PAGE -

SECTION 16: OTHER INFORMATION (continued)

H360: May damage fertility or the unborn child.
H317: May cause an allergic skin reaction.
H401: Toxic to aquatic life.
H316: Causes mild skin irritation.
H411: Toxic to aquatic life with long lasting effects.
H303: May be harmful if swallowed.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

GHS:

Acute Tox. 4: H302 - Harmful if swallowed.
Acute Tox. 5: H303 - May be harmful if swallowed.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Acute 3: H402 - Harmful to aquatic life.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 4: H227 - Combustible liquid.
Repr. 1B: H360 - May damage fertility or the unborn child.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Irrit. 3: H316 - Causes mild skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

The United Nations Economic Commission for Europe (UNECE)

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon
IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET