

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0643
PRODUCT NAME RHODINAL
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FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)

2. HAZARD IDENTIFICATION:

Classification of the substance or mixture:



GHS07



GHS05

Eye Dam. 1	H318 Causes serious eye damage.
Skin Irrit. 2	H315 Causes skin irritation
Skin Sens. 1	H317 May cause an allergic skin reaction.
Flam Liq. 4	H227 Combustible liquid

Label elements

Harmful in contact with skin and vapor.

GHS label elements

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible. The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



Signal word

Danger

Hazard determining components of labeling:

Geranium, citronellol

Hazard statements

H227	Combustible liquid
H315	Causes skin irritation.
H318	Causes serious eye damage.
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Precautionary statements

P210	Keep away from heat/sparks/flames/hot surfaces.
P305+P351+P338	In if eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P403+P235	Store in well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 3
Fire = 2
Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 3
Fire = 2
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT:

Not applicable.

vPvB:

Not applicable.

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

Chemical characterization: Substances

CAS No.: 5182-36-5

Description: 1,3-dioxane

Identification number(s)

EC No.:

4. FIRST-AID GUIDE:

Description of first aid measures

After inhalation:

Supply fresh air. In case of unconsciousness place patient stably in side position for transportation. Call a doctor if symptoms develop or persist.

After skin contact:

Take off immediately any contaminated clothing. Immediately rinse with water and soap and rinse thoroughly.

After eye contact:

Remove contact lenses if present and easy to do so. Rinse opened eye for several minutes under running water. Consult a doctor.

After swallowing:

Call a control center or doctor immediately. If swallowed rinse mouth with water (only if person is conscious). If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIRE-FIGHTING GUIDE:

Extinguishing media

Suitable extinguishing agents:

CO2 or extinguishing powder. Fight larger fires with alcohol resistant foam.

Special hazards arising from the substance or mixture

No further relevant information available.

Advice for firefighters

Protective equipment:

No special measures required.

Additional information

Cool endangered receptacles with water spray.

Collect contaminated firefighting water separately. It must not enter the sewage system.

6. ACCIDENTAL RELEASE GUIDE:

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Avoid contact with skin or inhalation of spillage, dust or vapor.

Environmental precautions:

Do not allow to enter sewers/surface or ground water. Do not contaminate water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. HANDLING AND STORAGE:

Handling:

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

Keep away from ignition sources – do not smoke.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Keep container closed, handle containers with care.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Store in cool, dry location. Keep receptacle tightly sealed.

Specific end use(s)

No further relevant information available.

8. EXPOSURE AND PERSONAL PROTECTION:

Additional information about design of technical systems:

No further data; see item 7.

Control parameters**Components with limit values that require monitoring at the workplace:**

Use explosion proof ventilation equipment.

Additional information:

The lists that were valid during the creation were used as a basis.

Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Information on basic physical and chemical properties

General Information	
Appearance:	
Form:	Liquid
Color:	According to product spec
Odor:	According to product spec
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	>225°C (>437 °F)
Flash point:	>76°C (>168.8°F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Not determined
Explosion limits:	
Lower:	
Upper:	
Vapor pressure:	Not determined.
Density at 20 °C (68 °F):	0.87 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Organic solvents:	Not determined.
Other information	No further relevant information available.

10. STABILITY AND REACTIVITY:

Reactivity

Chemical stability

Thermal decomposition/conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions

No dangerous reactions known.

Conditions to avoid

No further relevant information available.

Incompatible materials:

No further relevant information available.

Hazardous decomposition products:

No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION:**Information on toxicological effects****Acute toxicity:****Primary irritant effect:****On the skin:**

Irritant to skin and mucous membranes.

On the eye:

Irritating effect.

Sensitization:

May cause allergic skin reaction

Additional toxicological information:**Carcinogenic categories****IARC (International Agency for Research on Cancer)**

Substance is not listed.

NTP (National Toxicology Program)

Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12. ECOLOGICAL INFORMATION:**Toxicity****Aquatic toxicity:**

Harmful to aquatic life with long lasting effects.

Persistence and degradability

No further relevant information available.

Behavior in environmental systems:**Bioaccumulative potential**

Not biodegradable.

Mobility in soil

No further relevant information available.

Additional ecological information:**General notes:**

Water hazard class 1 (assessment by list): slightly hazardous for water. Do not let discharge reach drains, water courses, or onto the ground. Do not allow material to enter drains, sewers/water supplies.

Results of PBT and vPvB assessment**PBT:**

Not applicable.

vPvB:

Not applicable.

Other adverse effects

No further relevant information available.

13. DISPOSAL RECOMMENDATIONS:**Waste treatment methods****Recommendation:**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Uncleaned packaging:**Recommendation:**

Disposal must be made according to official regulations.

14. TRANSPORTATION INFORMATION:

UN-Number DOT, ADR, IMDG, IATA	Not regulated.
UN proper shipping name DOT ADR IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, liquid, n.o.s., 3082 liquid (citronellol)
Transport hazard class(es) DOT, ADR, IMDG, IATA Class Label	3 Flammable liquids 9
Packing group DOT, ADR, IMDG, IATA	III

Environmental hazards: Marine pollutant:	YES Product contains environmentally hazardous substances: citronellol 
Special precautions for user Danger code: EMS No.: Stowage Category	Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information: DOT Quantity limitations	On passenger air craft/rail: 60L On cargo aircraft only: 220 L 
ADR Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000ml
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000ml
UN "Model Regulation":	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CITRONELLOL), 9, III

15. REGULATORY INFORMATION:

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

Section 355 (extremely hazardous substances):

Substance is not listed.

Section 311/312 (hazardous chemical): Yes

Section 313 (Specific toxic chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act):

Citronellol, gernaiol, nerol.

Proposition 65

Chemicals known to cause cancer:

Substance is not listed.

Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

Chemicals known to cause developmental toxicity:

Substance is not listed.

Carcinogenic categories

EPA (Environmental Protection Agency)

Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

GHS label elements

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Hazard pictograms

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Signal word

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Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION:

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

Prepared By: M&U International LLC

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