

Fire fighters should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

Extinguishing Media:

All purpose dry chemical, foam, or carbon dioxide. Do not use water.

6. Accidental Release Measures

Spill and Leak Procedure:

Contain spilled liquid with sand or dirt. DO NOT use combustible materials such as sawdust. Avoid runoff into storm sewers and ditches, which lead to waterways. Absorb spill with dry sand or dirt and place in a chemical waste container. Contact authorities if required.

7. Handling and Storage

Handling:

Keep container closed. Loosen closure cautiously before opening. Store in a cool, well-ventilated place away from incompatible materials. (See Stability and Reactivity Section 10). Keep away from heat, sparks and flame. Protect material from direct sunlight. Grounding and bonding procedures should be used when transferring materials. Empty containers may retain hazardous properties. Follow all MSDS/label warnings even after container is emptied. Keep away from oxidizing materials.

Storage:

Store in a tightly closed container in a cool, dry, well-ventilated area, Away from heat sources.

8. Exposure Control, Personal Protection

Eye and Face Protection:

Use chemical goggles. If vapor exposure causes eye discomfort, use a full-face, supplied-air respirator.

Skin Protection:

For brief contact, no precautions other than clean body-covering clothing should be needed. When prolonged or frequently repeated contact could occur, use protective clothing such as butyl rubber, impervious to this material. Use chemical resistant gloves.

Respiratory protection:

Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. For emergency and other conditions where the exposure guideline may be greatly exceeded, use an approved positive pressure self-contained breathing apparatus. In confined or poorly ventilated areas, use an approved positive pressure self-contained breathing apparatus.

Exposure Limit(s):

List of components contained in the formula with an OEL value

Component	OEL Type	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Notes
CITRAL	ACGIH				5		
BENZYL ACETATE	ACGIH				10		
BHT ; BUTYLATED HYDROXYTOLUENE	ACGIH		2				

9. Physical and Chemical Properties

Appearance: data not available

Color: data not available

Boiling Point: N.A.

Refractive Index: = 1.4671

Water Solubility: data not available

Oil Solubility: data not available

Density: data not available

Melting Point: N.A.

Flash Point: > 93°C / 200°F

Odor: data not available

10. Stability and Reactivity

Stability:

Stable.

Conditions to Avoid:

Strong oxidizing agents.

Incompatibility:

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None.

Decomposition:

Will not occur.

Polymerization:

Will not occur.

11. Toxicological Information

Toxicological Information of the Preparation

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

BENZYL SALICYLATE	LD50 Oral Rat = 2227mg/kg LD50 Skin Rabbit = 14150mg/kg
LINALYL ACETATE	LD50 Oral Rat = 13934mg/kg
HEXYL CINNAMIC ALDEHYDE	LD50 Oral Rat = 2450mg/kg LD50 Skin Rabbit > 3000mg/kg
DIHYDROMYRCENOL	LD50 Oral Rat = 3600mg/kg LD50 Skin Rabbit > 5g/kg
LINALOOL	LC50 Inhalation Mouse = 3.2mg/l 1h LD50 Oral Rat = 2790mg/kg LD50 Skin Rat = 5610mg/kg
BHT ; BUTYLATED HYDROXYTOLUENE	LD50 Oral Rat = 890mg/kg
6-ACETYL-1,1,2,4,4, 7-HEXAMETHYLTETRALINE	LD50 Oral Rat = 570mg/kg LD50 Skin Rabbit > 5g/kg LD50 Skin Rat = 7940mg/kg
PHENYL ETHYL ALCOHOL	LC50 Inhalation Rat > 1.38mg/l 4h LD50 Oral Rat = 1790mg/kg LD50 Skin Rabbit = 790MCLKG
D-LIMONENE	LD50 Oral Rat = 4400mg/kg LD50 Skin Rabbit > 2000mg/kg
CYCLAMEN ALDEHYDE ; 2-METHYL-3-(P- ISOPROPYLPHENYL) PROPIONALDEHYDE	LD50 Oral Rat = 3810mg/kg LD50 Skin Rat > 5g/kg
GERANYL ACETATE	LD50 Oral Rat = 6330mg/kg
HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE	LD50 Oral Rat = 3250MCLKG LD50 Skin Rabbit = 11300MCLKG
BUTYL PHENYL METHYL PROPIONAL	LD50 Oral Rat > 1000mg/kg

	LD50 Skin Rat > 2000mg/kg
CIS-3-HEXENYL SALICYLATE	LD50 Oral Rat = 5g/kg LD50 Skin Rabbit > 5g/kg
GERANIOL	LD50 Oral Rat = 3600mg/kg LD50 Skin Rabbit > 5000mg/kg
HYDROXYCITRONELLAL	LD50 Oral Rat > 5g/kg
CITRAL	LD50 Oral Rat = 4950mg/kg LD50 Skin Rabbit = 2250mg/kg LD50 Skin Rat > 2000mg/kg

In case they have not been specified above, the following Information should be considered as Not Available.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

12. Ecological Information

List of Eco-Toxicological properties of the components

Quantity	Component	Ident. Numb.	Ecotox Data
> 30 %	DIPROPYLENE GLYCOL	CAS: 110-98-5 - EINECS: 203-821-4	LC50 Fish Carassius auratus 5000mg/l 24 Hr static
1-5 %	LINALOOL	CAS: 78-70-6 - EINECS: 201-134-4	EC50 Daphnia Daphnia magna 20mg/l 48 Hr EC50 Alga Desmodesmus subspicatus 88.3mg/l 96 Hr LC50 Fish Leuciscus idus 22mg/l 96 Hr static 22-46
1-5 %	BHT ; BUTYLATED HYDROXYTOLUENE	CAS: 128-37-0 - EINECS: 204-881-4	EC50 Alga Pseudokirchneriella subcapitata 6mg/l 72H EC50 Alga Desmodesmus subspicatus 0.42mg/l 72H LC50 Fish Oryzias latipes 5mg/l 48 Hr
1-5 %	PHENYL ETHYL ALCOHOL	CAS: 60-12-8 - EINECS: 200-456-2	EC50 Daphnia Daphnia magna 287.17mg/l 48 Hr EC50 Alga Desmodesmus subspicatus 490mg/l 72H LC50 Fish Leuciscus idus 220mg/l 96 Hr static 220-460
0.1-1 %	D-LIMONENE	CAS: 5989-27-5 - EINECS: 227-813-5 - 67-548-EC: 601-029-00-7	LC50 Fish Pimephales promelas 0.619mg/l 96 Hr flow-through 0.619-0.796 LC50 Fish Oncorhynchus mykiss 35mg/l 96 Hr flow-through 0.619-0.796
0.1-1 %	ISOBORNYL ACETATE	CAS: 125-12-2 - EINECS: 204-727-6	LC50 Fish Brachydanio rerio 10.0mg/l 96 Hr static 10.0-18.0
0.1-1 %	BUTYL PHENYL METHYL PROPIONAL	CAS: 80-54-6 - EINECS: 201-289-8	EC50 Daphnia Daphnia magna 10.7mg/l 48 Hr LC50 Fish Brachydanio rerio 2.2mg/l 96 Hr static 2.2-4.6
0.1-1 %	CITRAL	CAS: 5392-40-5 - EINECS: 226-394-6 - 67-548-EC: 605-019-00-3	EC50 Daphnia Daphnia magna 7mg/l 48 Hr EC50 Alga Desmodesmus subspicatus 16mg/l 72H

16. Other Information

Main bibliographic sources:

LOLI database by ChemAdvisor.

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