

**Material safety data sheet**  
According to EU Regulation 1907/2006 in the current version  
**COSGARD**

**1. Identification of the substance/mixture and company**

Trade name: Cosgard  
Broad spectrum preservative

INCI: Benzyl alcohol, Salicylic acid, Glycerin, Sorbic acid

CAS No. : 100-51-6/ 69-72-7/ 56-81-5/ 110-44-1

EINESCS/EC No. : 202-859-9/ 200-712-3/ 200-289-5/ 203-768-7

REACH pre-registration No. : -

Utilization: Raw material for cosmetic or professional use

Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania  
Tel/Fax: +40259-436.755, www.elemental.eu

Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.  
International emergency number: +49 180 2273-112

**2. Hazards Identification**

2.1 Classification of the substance or mixture  
Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Serious eye damage, Category 1	H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word Danger



Hazard statements

H302 + H332 Harmful if swallowed or if inhaled.

H318 Causes serious eye damage.

H361d Suspected of damaging the unborn child.

Precautionary statements

Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P280 Wear eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

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P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Benzyl alcohol

Salicylic acid

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

No hazards to be specially mentioned.

**3. Declaration of ingredients**

**3.2 Mixtures**

**Components**

Chemical name	CAS-No./EC-No./Index-No./REACH Registration Number	Classification	Concentration (% w/w)
Benzyl alcohol	100-51-6 603-057-00-5 01-2119492630-38-XXXX	Acute Tox. 4; H302 Acute Tox. 4; H332	>= 70 - < 90
Salicylic acid	69-72-7 01-2119486984-17-XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318 Repr. 2; H361d	>= 15 - < 20
Hexa-2,4-dienoic acid	110-44-1	Eye Irrit. 2; H319 STOT SE 3; H335	>= 3 - < 5
Substances with a workplace exposure limit :			
Glycerol	56-81-5	-	>= 5 - < 10

For explanation of abbreviations see section 16.

**4. First aid measures**

**4.1 Description of first aid measures**

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If inhaled Move to fresh air. Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice. If breathing is irregular or stopped, administer artificial respiration. Keep respiratory tract clear.

In case of skin contact After contact with skin, wash immediately with plenty of soap and water. If on clothes, remove clothes. In the case of skin irritation or allergic reactions see a physician.

In case of eye contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Continue rinsing eyes during transport to hospital. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

If swallowed Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed  
Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed  
Treatment : Treat symptomatically.

## **5. Fire fighting measures**

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### 5.1 Extinguishing media

Suitable extinguishing media : Water spray Alcohol-resistant foam Dry chemical  
Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Heating or fire can release toxic gas. Do not allow run-off from fire fighting to enter drains or water courses.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## **6. Accidental release measures**

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### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Use respirator when performing operations involving potential exposure to vapour of the product.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

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**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**6.4 Reference to other sections**

For personal protection see section 8.  
For disposal considerations see section 13.

**7. Handling and storage**

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**7.1 Precautions for safe handling**

Advice on safe handling : Do not breathe vapours/dust. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Take precautionary measures against static discharges.

Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Keep container tightly closed. Keep in a well-ventilated place. Electrical installations / working materials must comply with the technological safety standards. To maintain product quality, do not store in heat or direct sunlight.

Other data : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

Specific use(s) : No information available.

**8. Exposure controls / personal protection**

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**8.1 Control parameters**

Occupational Exposure Limits

Glycerol	56-81-5	TWA (Mist.)	10 mg/m3	EH40 WEL
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Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Benzyl alcohol	Consumers	Oral	Short-term exposure, Acute systemic effects	20 mg/kg
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	Consumers	Oral	Long-term systemic effects	4 mg/kg
	Consumers	Inhalation	Short-term exposure, Systemic effects	27 mg/m3
	Consumers	Inhalation	Long-term systemic effects	5,4 mg/m3
	Workers	Inhalation	Short-term exposure, Systemic effects	110 mg/m3
	Workers	Inhalation	Long-term systemic effects	22 mg/m3
	Workers	Dermal	Short-term exposure, Systemic effects	40 mg/kg
	Workers	Dermal	Long-term systemic effects	8 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Benzyl alcohol	Soil	0,456 mg/kg
	Sewage treatment plant	39 mg/l
	Marine sediment	0,527 mg/kg
	Marine water	0,1 mg/l
	Fresh water sediment	5,27 mg/kg
	Fresh water	1 mg/l

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166 Wear face-shield and protective suit for abnormal processing problems.

Hand protection : Material Nitrile rubber

Remarks : Wear protective gloves. Break through time : > 480 min. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place. Impervious clothing.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter. Respirator with ABEK filter. Respirator with a vapour filter (EN 141)

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance clear

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Colour light yellow  
Odour characteristic  
Odour Threshold no data available  
pH no data available  
Melting point/range no data available  
Boiling point/boiling range 245 °C  
Flash point 132 °C  
Evaporation rate no data available  
Flammability (solid, gas) no data available  
Upper explosion limit no data available  
Lower explosion limit no data available  
Vapour pressure not determined  
Relative vapour density not determined  
Relative density no data available  
Density 1,05 - 1,15 g/cm<sup>3</sup>  
Water solubility slightly soluble  
Partition coefficient: n-octanol/water no data available  
Auto-ignition temperature not determined  
Decomposition temperature no data available  
Viscosity, kinematic not determined  
Explosive properties No hazards to be specially mentioned.  
Oxidizing properties no data available

9.2 Other information  
no data available

## **10. Stability and reactivity**

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10.1 Reactivity  
No decomposition if stored and applied as directed.

10.2 Chemical stability  
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions  
Hazardous reactions : Stable under recommended storage conditions.

10.4 Conditions to avoid  
Conditions to avoid :Heat

10.5 Incompatible materials  
Materials to avoid : Strong acids and strong bases. Oxidizing agents

10.6 Hazardous decomposition products  
No decomposition if used as directed.

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11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity	Acute toxicity estimate: 1 424 mg/kg Method: Calculation method
Acute inhalation toxicity	Acute toxicity estimate: 1,74 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	LD50 (Rabbit): estimated > 2 000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation  
Remarks: no data available

Serious eye damage/eye irritation  
Remarks: no data available

Respiratory or skin sensitisation  
Remarks: no data available

Germ cell mutagenicity  
Genotoxicity in vitro : Remarks: no data available

Carcinogenicity  
Result: no data available

Reproductive toxicity  
Effects on fertility : Remarks: no data available

STOT - single exposure  
Remarks: no data available

STOT - repeated exposure  
Remarks: no data available

Aspiration toxicity  
No aspiration toxicity classification

Further information  
Remarks: no data available

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The following toxicological data refer to:  
Benzyl alcohol (CAS-No.: 100-51-6)

**Acute toxicity**

Acute oral toxicity	LD50 (Rat): 1 610 mg/kg Remarks: Literary reference
Acute inhalation toxicity	LC50 (Rat): > 4,178 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	LD50 (Rabbit): 2 000 mg/kg Assessment: The component/mixture is minimally toxic after single contact with skin. Remarks: Literary reference

**Skin corrosion/irritation**

Species: Rabbit  
Exposure time: 4 h  
Method: OECD Test Guideline 404  
Result: No skin irritation

**Serious eye damage/eye irritation**

Species: Rabbit  
Assessment: No eye irritation  
Method: OECD Test Guideline 405  
Result: Moderate eye irritation

**Respiratory or skin sensitisation**

Test Type: Magnusson & Kligman  
Species: Guinea pig  
Result: not sensitizing  
Remarks: Literary reference

**Germ cell mutagenicity**

Genotoxicity in vitro	Test Type: Ames test Result: negative
	Test Type: gene mutation test Species: mouse lymphoma cells Result: equivocal
	Test Type: Chromosome aberration test in vitro Result: positive



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Genotoxicity in vivo	Test Type: In vivo micronucleus test Species: Mouse Application Route: ip Dose: 50 -100-200 mg/kg Result: negative
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Reproductive toxicity

Effects on fertility:

Species: Mouse, female

Application Route: Oral

Dose: 10d Fertility: NOAEL: 550 mg/kg food

Repeated dose toxicity

Species: Rat

Application Route: Oral

Remarks: Literary reference

Further information

Remarks: May cause sensitisation of susceptible persons by skin contact.

Remarks: Dermal absorption possible

Remarks: High concentration of vapours may induce unconsciousness.

Salicylic acid (CAS-No.: 69-72-7)

Acute toxicity

Acute oral toxicity	LD50 (Rat): 891 mg/kg
Acute inhalation toxicity	LC50 (Rat): > 0,9 mg/l Exposure time: 1 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	LD50 (Rat): > 2 000 mg/kg LD50 (Rabbit): > 10 000 mg/kg

Skin corrosion/irritation

Species: Rabbit

Assessment: No skin irritation

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

Serious eye damage/eye irritation

Species: Rabbit

Assessment: Risk of serious damage to eyes.

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Result: Severe eye irritation

Germ cell mutagenicity

Genotoxicity in vitro :

Test Type: Ames test

Species: Salmonella typhimurium

Metabolic activation: yes

Result: negative

**12. Ecological information**

12.1 Toxicity

Toxicity to fish :

Remarks: no data available

12.2 Persistence and degradability

Biodegradability :

Result: no data available

12.3 Bioaccumulative potential

Bioaccumulation : Remarks: no data available

12.4 Mobility in soil

Distribution among environmental compartments :

Remarks: no data available

12.5 Results of PBT and vPvB assessment

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Additional ecological information : no data available

The following ecotoxicological data refer to:

Benzyl alcohol (CAS-No.: 100-51-6)

Toxicity to fish	LC50 (Leuciscus idus (Golden orfe)): 646 mg/l Exposure time: 48 h Method: DIN 38412 Part 15
	LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 400 mg/l Exposure time: 24 h Test Type: Immobilization

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	Method: DIN 38412 L11 Remarks: Literary reference
Toxicity to algae	IC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	NOEC (Pseudokirchneriella subcapitata (green algae)): 310 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 51 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
Toxicity to microorganisms	EC50 (Pseudomonas putida): 658 mg/l Exposure time: 16 h Remarks: Literary reference
	EC50 (Photobacterium phosphoreum): 71 mg/l Exposure time: 30 min Remarks: Literary reference
Biodegradability	Test Type: Closed Bottle test Result: Readily biodegradable. Biodegradation: > 90,0 % Exposure time: 30 d Method: OECD Test Guideline 301D Remarks: Literary reference
Bioaccumulation	Bioconcentration factor (BCF): 4 Remarks: Literary reference
Distribution among environmental compartments	Adsorption/Soil Remarks: Literary reference

**13. Disposal considerations**

13.1 Waste treatment methods

Product : Dispose of contents/container in accordance with local regulation. Contact waste disposal services. Do not dispose of waste into sewer.

Contaminated packaging : Dispose of as unused product. Do not re-use empty containers.

**14. Transport information**

IATA

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Not dangerous goods

IMDG  
Not dangerous goods

ADR  
Not dangerous goods

RID  
Not dangerous goods

DOT  
Not dangerous goods

TDG  
Not dangerous goods

14.1 UN number  
Not applicable

14.2 Proper shipping name  
Not applicable

14.3 Transport hazard class  
Not applicable

14.4 Packing group  
Not applicable

14.5 Environmental hazards  
Marine pollutant: no

14.6 Special precautions for user  
none

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code  
Not applicable

**15. Regulatory information**

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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

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National regulatory information

Water contaminating class (Germany) : WGK 1 slightly hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

15.2 Chemical safety assessment  
not required

**16. Additional information**

Classification of the mixture:	Classification procedure:
Acute Tox. 4	H302 Calculation method
Acute Tox. 4	H332 Calculation method
Eye Dam. 1	H318 Calculation method

Full text of H-Statements

H302	Harmful if swallowed.
H361d	Suspected of damaging the unborn child.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

16.1 Abbreviations

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CLP: Classification, Labeling, Packaging.  
DNEL: Derived No Effect Level.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.

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LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

**Disclaimer:**

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.