

# Safety Data Sheet acc. to OSHA HCS

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· Product identifier	
• Trade name: <u>Safrar</u> • Synonym 2,6,6-trime	<u>al</u> thyl-1,3-cyclohexadiene-1-carboxaldehyde
	99 ubstance / the mixture search use - Not for human or veterinary diagnostic or therapeutic use.
Details of the suppl Manufacturer/Supp Cayman Chemical C 1180 E. Ellsworth Ro Ann Arbor, MI 48108 USA	).
· Emergency telepho	
US/CÂNADA: 800-42 Outside US/CANAD/	.: 703-741-5970
US/CÂNADA: 800-42 Outside US/CANAD/ 2 Hazard(s) identi	4-9300 .: 703-741-5970
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US/CÂNADA: 800-42 Outside US/CANAD/ 2 Hazard(s) identi Classification of the Outside US/CANAD/ Classification of the Outside US/CANAD/ Classification of the Outside US/CANAD/ GHS09 En Aquatic Chronic 2 Outside US/CANAD/ GHS09 En Acute Toxicity - Oral Skin Irritation 2 Eye Irritation 2A	<ul> <li>4-9300 x: 703-741-5970</li> <li>ication</li> <li>substance or mixture</li> <li>ironment</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>4 H302 Harmful if swallowed.</li> <li>H315 Causes skin irritation.</li> <li>H319 Causes serious eye irritation.</li> </ul>
US/CANADA: 800-42 Outside US/CANAD/ 2 Hazard(s) identii Classification of the Outside US/CANAD/ Classification of the Outside US/CANAD/ GHS09 End Aquatic Chronic 2 Outside US/CANAD/ GHS09 End Aquatic Chronic 2 Outside US/CANAD/ GHS09 End Aquatic Chronic 2 Acute Toxicity - Oral Skin Irritation 2	<ul> <li>4-9300 x: 703-741-5970</li> <li>ication</li> <li>substance or mixture</li> <li>ironment</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>4 H302 Harmful if swallowed. H315 Causes skin irritation.</li> </ul>

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<ul> <li>Hazard pictogr</li> </ul>	rams
↓ ¥	3
GHS07 GHS	00
GHS07 GHS	
· Signal word W	arning
· Hazard statem	
H302 Harmful if	
H315 Causes s	kin irritation.
	erious eye irritation.
	e an allergic skin reaction.
	equatic life with long lasting effects.
Precautionary	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272 P273	Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment.
P280	Wear protective gloves / eye protection / face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P330	Rinse mouth.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P3	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P363 P391	Wash contaminated clothing before reuse. Collect spillage.
P501	Dispose of contents/container in accordance with local/regional/national/international
1 301	regulations.
· Classification	
· NFPA ratings (	
<b>•</b>	
	ealth = 2
	re = 1
	eactivity = 0
· HMIS-ratings (	scale 0 - 4)
	lealth = 2
	ire = 1
REACTIVITY 0 R	Reactivity = 0
· Other hazards	
	and vPvB assessment
· <b>PBT:</b> Not applic	
· <b>vPvB:</b> Not appl	

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### **3** Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description 116-26-7 Safranal
- Identification number(s)
- EC number: 204-133-7

### 4 First-aid measures

· Description of first aid measures

### · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: Immediately call a 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 measures**

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or 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.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- 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.
- Protective Action Criteria for Chemicals
- **PAC-1:** Substance is not listed.
- **PAC-2:** Substance is not listed.

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· PAC-3: Substance is not listed.

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### 7 Handling and storage

- · Handling:
- · Precautions for safe handling
- No special precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure. Keep away from sources of ignition. Take precautionary measures against static discharge.re.
- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities Keep container tightly closed.

Store in accordance with information listed on the product insert.

- · Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as 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: Not required.
- · 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 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.

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• Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### · Eye protection:



Tightly sealed goggles

Information on basic physical and	chemical properties
General Information	
· Appearance: Form:	noot oil
Color:	neat oil Not determined.
· Odor:	Characteristic
Structural Formula	C10H14O
· Molecular Weight	150.2 g/mol
Odor threshold:	Not determined.
· pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	95 °C (203 °F)
· Flammability (solid, gaseous):	Product is not flammable.
Decomposition temperature:	Not determined.
Ignition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not applicable.
· Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Not determined.
Partition coefficient (n-octanol/wa	ter): Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic: SOLUBILITY	Not applicable. DMF: 30 mg/ml; DMSO: 30 mg/ml

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• Other information

No further relevant information available.

### **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · 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: strong acids, strong bases, strong oxidizing agents
- · Hazardous decomposition products: carbon oxides

### **11 Toxicological information**

- · RTECS Number GU4759000
- · Information on toxicological effects
- Acute toxicity:

### · LD/LC50 values that are relevant for classification:

Intraperitoneal TDLO 145 mg/kg (rat)

- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · 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: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- Also poisonous for fish and plankton in water bodies.
- Toxic for aquatic organisms

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· Results of PBT and vPvB assessment

- · PBT: Not applicable.
- · vPvB: Not applicable.

• Other adverse effects No further relevant information available.

### **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, IMDG, IATA	not regulated
UN proper shipping name DOT, IMDG, IATA	not regulated
Transport hazard class(es)	
DOT, ADN, IMDG, IATA	
Class	not regulated
Packing group	
DOT, IMDG, IATA	not regulated
Environmental hazards:	Environmentally hazardous substance, solid
Special precautions for user	Not applicable.
Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.

### **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

- Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.
- · 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.

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- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· Department issuing SDS: Environment protection department.

· Contact: -

· Date of preparation / last revision 09/07/2023

 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety **OSHA: Occupational Safety & Health** TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL:** Recommended Exposure Limit Acute Toxicity - Oral 4: Acute toxicity - Category 4 Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Sensitization - Skin 1: Skin sensitisation - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 \* Data compared to the previous version altered.