

1 Identification

Product identifier

Product name: **3-Coumaranone**

Stock number: A10202, L07627

CAS Number:

7169-34-8

Relevant identified uses of the substance or mixture and uses advised against.

Identified use: SU24 Scientific research and development

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc.

30 Bond Street

Ward Hill, MA 01835-8099

Tel: 800-343-0660

Fax: 800-322-4757

Email: tech@alfa.com

www.alfa.com

Information Department: Health, Safety and Environmental Department

Emergency telephone number:

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2 Hazard(s) identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)

The substance is not classified according to the Globally Harmonized System (GHS).

Hazards not otherwise classified No information known.

Label elements

GHS label elements Not applicable

Hazard pictograms Not applicable

Signal word Not applicable

Hazard statements Not applicable

WHMIS classification Not controlled

Classification system

HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)

HEALTH 1 Health (acute effects) = 1

FIRE 1 Flammability = 1

REACTIVITY 1 Physical Hazard = 1

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances

CAS# Description:

7169-34-8 3-Coumaranone

4 First-aid measures

Description of first aid measures

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing Seek medical treatment.

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 Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Carbon monoxide and carbon dioxide

Advice for firefighters

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Environmental precautions: Do not allow product to reach sewage system or any water course.

Methods and material for containment and cleaning up: Pick up mechanically.

Prevention of secondary hazards: No special measures required.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.																																																									
(Contd. of page 1)																																																									
7 Handling and storage																																																									
Handling Precautions for safe handling Keep container tightly sealed. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Store in freezer (-20 °C). Information about storage in one common storage facility: Store in the dark. Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Protect from exposure to light. Specific end use(s) No further relevant information available.																																																									
8 Exposure controls/personal protection																																																									
Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Safety glasses Body protection: Protective work clothing.																																																									
9 Physical and chemical properties																																																									
Information on basic physical and chemical properties General Information Appearance: <table><tr><td>Form:</td><td>Crystalline powder</td></tr><tr><td>Color:</td><td>Yellow to orange</td></tr><tr><td>Odor:</td><td>Not determined</td></tr><tr><td>Odor threshold:</td><td>Not determined.</td></tr></table> <table><tr><td>pH-value:</td><td>Not applicable.</td></tr></table> Change in condition <table><tr><td>Melting point/Melting range:</td><td>97-102 °C (207-216 °F)</td></tr><tr><td>Boiling point/Boiling range:</td><td>Not determined</td></tr><tr><td>Sublimation temperature / start:</td><td>Not determined</td></tr><tr><td>Flammability (solid, gaseous)</td><td>Not determined.</td></tr><tr><td>Ignition temperature:</td><td>Not determined</td></tr><tr><td>Decomposition temperature:</td><td>Not determined</td></tr><tr><td>Auto igniting:</td><td>Not determined.</td></tr></table> <table><tr><td>Danger of explosion:</td><td>Not determined.</td></tr><tr><td>Explosion limits:</td><td></td></tr><tr><td> Lower:</td><td>Not determined</td></tr><tr><td> Upper:</td><td>Not determined</td></tr><tr><td>Vapor pressure:</td><td>Not applicable.</td></tr><tr><td>Density:</td><td>Not determined</td></tr><tr><td>Relative density</td><td>Not determined.</td></tr><tr><td>Vapor density</td><td>Not applicable.</td></tr><tr><td>Evaporation rate</td><td>Not applicable.</td></tr><tr><td>Solubility in / Miscibility with</td><td></td></tr><tr><td> Water:</td><td>Not determined</td></tr><tr><td>Partition coefficient (n-octanol/water):</td><td>Not determined.</td></tr><tr><td>Viscosity:</td><td></td></tr><tr><td> dynamic:</td><td>Not applicable.</td></tr><tr><td> kinematic:</td><td>Not applicable.</td></tr><tr><td>Other information</td><td>No further relevant information available.</td></tr></table>		Form:	Crystalline powder	Color:	Yellow to orange	Odor:	Not determined	Odor threshold:	Not determined.	pH-value:	Not applicable.	Melting point/Melting range:	97-102 °C (207-216 °F)	Boiling point/Boiling range:	Not determined	Sublimation temperature / start:	Not determined	Flammability (solid, gaseous)	Not determined.	Ignition temperature:	Not determined	Decomposition temperature:	Not determined	Auto igniting:	Not determined.	Danger of explosion:	Not determined.	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/water):	Not determined.	Viscosity:		dynamic:	Not applicable.	kinematic:	Not applicable.	Other information	No further relevant information available.
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10 Stability and reactivity																																																									
Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Heat																																																									
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Product name: 3-Coumaranone	
Light Hazardous decomposition products: Carbon monoxide and carbon dioxide	
(Contd. of page 2)	
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability: No further relevant information available. Bioaccumulative potential: No further relevant information available. Mobility in soil: No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. 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: Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	
14 Transport information	
UN-Number DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	-
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements: Not applicable Hazard pictograms: Not applicable Signal word: Not applicable Hazard statements: Not applicable National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings): Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer: Substance is not listed. Prop 65 - Developmental toxicity: Substance is not listed. Prop 65 - Developmental toxicity, female: Substance is not listed. Prop 65 - Developmental toxicity, male: Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use): Substance is not listed.	
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Product name: 3-Coumaranone	
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
(Contd. of page 3)	
<div>16 Other information</div> <div>Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.</div> <div>Department issuing SDS: Global Marketing Department</div> <div>Date of preparation / last revision 11/23/2015 / -</div> <div>Abbreviations and acronyms:</div> <div>ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</div> <div>DOT: US Department of Transportation</div> <div>CAS: Chemical Abstracts Service (division of the American Chemical Society)</div> <div>HMIS: Hazardous Materials Identification System (USA)</div> <div>WHMIS: Workplace Hazardous Materials Information System (Canada)</div> <div>LC50: Lethal concentration, 50 percent</div> <div>LD50: Lethal dose, 50 percent</div> <div>vPvB: very Persistent and very Bioaccumulative</div> <div>ACGIH: American Conference of Governmental Industrial Hygienists (USA)</div> <div>OSHA: Occupational Safety and Health Administration (USA)</div> <div>NTP: National Toxicology Program (USA)</div> <div>IARC: International Agency for Research on Cancer</div> <div>EPA: Environmental Protection Agency (USA)</div>	
USA	