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SAFETY DATA SHEET

ACETYLACETONE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	123-54-6
EC number:	204-634-0
1.2 SYNONYMS	• Acetylaceton • 2,4-Pentanedione • Acetylmethylethylketone • 1,3-Dioxopropane • 2,4-Diketopentane • Pentanedione, 2,4

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Flammable(Category 3) Acute toxicity (Category 4)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H226:** flammable liquid and vapour **H302:** harmful if swallowed.
Precautionary Statements:	**P210:** keep away from heat/sparks/open flames/hot surfaces- no smoking **P241:** use explosion proof electrical/venting/lighting equipment **P280:** wear protective gloves/protective clothing/face protection **P303+P361+P353:** IF ON SKIN(OR HAIR): remove/take off all contaminated clothing immediately. Rinse skin with water.

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	P403+P235: store in a well ventilated place. Keep cool. **P501:** dispose of contents/container in accordance with regional/national/international regulations.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, coughing, and sneezing.
Ingestion:	May cause severe gastrointestinal irritation, nausea, vomiting, and abdominal pain.
Skin Contact:	an cause severe burns, irritation, and allergic reactions,
Eye contact:	May cause irritation, redness, pain and burning sensation.
Chronic Exposure:	Chronic exposure to acetylacetone may lead to liver and kidney damage.
Aggravation of pre-existing conditions :	may aggravate pre-existing conditions such as liver or kidney disease, respiratory disorders, and central nervous system disorders.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 123-54-6 ACETYLACETONE
Identification number(s):	EC number: 204-634-0

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

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After skin contact:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes,
	occasionally lifting the upper and lower eyelids. consult a physician.
After swallowing:	Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cups full of milk or water. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	acute skin and eye irritation, respiratory discomfort from inhalation of dust, and gastrointestinal upset from ingestion, while delayed effects may involve skin sensitization, respiratory sensitization, and persistent gastrointestinal discomfort.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media	Dry chemical, carbon dioxide, water spray, alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Gases like carbon dioxide and carbon monoxide
5.3 Advice for firefighters	Wear fully protective suit, safety glasses and respiratory device .
5.4 further information	no data available

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
6.2 Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains or soil.
6.3 Methods and material for containment and cleaning up:	Wore chemical protection suit and self-contained breathing apparatus (SCBA). Collect spilled into container and absorb with sand, earth or inert substances. Keep containers tightly sealed. Do not allow water into the container ban chemical exposure. Spray water to reduce vapours. Ventilate the area and wash clean the area spilled material contained closed.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	For use in are with adequate ventilation. Do not use in confined spaces. Electrostatic discharge protection. Do not let flame ignition Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities	Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers

	and oxidising agents. Protect containers against physical damage and check regularly for leaks.
Requirements to be met by storerooms and receptacles	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended
8.2 Exposure controls:	
Appropriate engineering controls:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Instantly remove any soiled and impregnated garments.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
	Eye protection: Required

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Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Liquid
Colour:	Colourless
Odour:	Not determined
pH-value:	Not determined
Melting point/Melting range:	-23°C
Boiling point/Boiling range:	140°C-141°C
Flammability (solid, gaseous):	Not determined
Ignition temperature:	340°C
Decomposition temperature:	Not determined
Self-igniting:	Not determined
Flash point:	34°C
Danger of explosion:	Not determined
Explosion limits: Lower:	1.3%
Explosion limits: Upper:	7.6%
Vapour pressure:	No data available
Density at 20 °C:	0.973 g/cm³ (approx.)
Relative density:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in / Miscibility with- ·water at 20 °C:	160g/l
Partition coefficient:(n-octanol/water)	Not determined
Viscosity:	Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under proper operation and storage conditions.
10.3 Possibility of hazardous reactions	No dangerous reactions known.
10.4 Conditions to avoid	Incompatible materials.

10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	Carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat) : 55mg/kg **LD50** (Dermal, Rabbit): 788mg/kg **LC50** (Inhalation Rat) : no data available
Skin corrosion/Irritation:	May cause irritation
Serious eye damage/irritation:	May cause irritation
Respiratory damage/irritation:	May cause irritation
Ingestion:	May cause irritation
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	Not classified
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Aquatic Toxicity:	No data available
Biodegradability:	moderately biodegradable.

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	No data available
12.2 Persistence and degradability:	No data available
12.3 Bioaccumulative potential:	No data available
12.4 Mobility in soil:	No data available
12.5 Other adverse effects:	Do not empty into drains

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SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	water and mild soap, isopropyl alcohol, acetone, neutral PH cleaners.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	UN2310
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	ACETYLACETONE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	3
14.4 Packing group · ADR, IMDG, IATA:	3
14.5 Environmental hazards:	Not applicable
14.6 Special precautions for user:	Warning: flammable liquids

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is not classified as harmful substances
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has been carried out under **REACH** regulation.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of

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