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according to Regulation (EC) No 1907/2006 (REACH) as amended					
		Ace	etylacetone		
	ion date	21st March 2017			
Revisi	on date	22nd April 2024	Version	6.0	
SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1.	Product identifier	-	Acetylacetone	-	
	Substance / mixture		substance		
	Chemical name		acetylacetone		
	CAS number		123-54-6		
	Index number		606-029-00-0		
	EC (EINECS) number		204-634-0		
	Registration number		01-2119458968-15-xxx	X	
	Other substance nam	e			
	2,4-Pentandion	Pentan-2 4-dion			
1.2.			r mixture and uses advised agai	inst	
1.2.		uses of the substance of	r mixture and uses advised aga	inst	
1.2.	Relevant identified Substance's intend	uses of the substance of ed use	r mixture and uses advised aga i atory synthesis, industrial application		
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Classification of the substance in accordance with Regulation (EC) No 1272/2008

The substance is classified as dangerous.

Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311+H331 Most serious adverse physico-chemical effects Flammable liquid and vapour. Most serious adverse effects on human health and the environment Harmful if swallowed. Toxic in contact with skin or if inhaled.

penta[°]CHEMICALS UNLIMITED

Safety data sheet

		SAFETY	DATA SHEET					
	according to Regulation (EC) No 1907/2006 (REACH) as amended							
	Acetylacetone							
Creation date		arch 2017	-					
Revision date	22nd A	pril 2024	Version	6.0				
2.2. Label e	lements							
Hazard	pictogram							
Signal v	word							
Danger								
Danger	ous substance							
acetylac								
•	606-029-00-0; CAS: 1	23-54-6)						
	statements							
H226		Flammable liquid	-					
H302		Harmful if swallow						
H311+H		Ioxic in contact v	vith skin or if inhaled.					
	tionary statements							
P210		Keep away from l No smoking.	neat, hot surfaces, sparks,	open flames and other ignition sources.				
P261		Avoid breathing p	oar, aerosolů					
P280		Wear protective	jloves.					
P304+P3	340			d keep comfortable for breathing.				
P311		Call a POISON CE	NTER.					
2.3. Other h	azards							

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 606-029-00-0 CAS: 123-54-6 EC: 204-634-0 Registration number:	substance main component acetylacetone	≥98	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311+H331	
01-2119458968-15- xxxx				

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. **Description of first aid measures**

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.



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If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse skin with water or shower.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

Vomiting should be induced in the person only if conscious, within 1 hour from ingestion. If in doubt whether vomiting should be induced, contact the Toxicological Information Centre and give information about the substances or composition of the product as provided on the original packaging or in the safety data sheet of the product. FOLLOWING INGESTION OF TOXIC OR HIGHLY TOXIC SUBSTANCES, GIVE 10-20 CRUSHED TABLETS OF ACTIVATED CARBON, MIXED IN WATER, WITHIN NO LATER THAN 5 MINUTES - irrespective of whether vomiting could be induced. Call medical rescue service.

4.2. Most important symptoms and effects, both acute and delayed

If inhaled

Not expected. **If on skin** not available **If in eyes** Not expected. **If swallowed** Irritation, nausea.

4.3. Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist. **Unsuitable extinguishing media** Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. The substance is flammable. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.



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	1		-			

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s) not available

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL

acetylacetone						
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source	
Workers	Inhalation	84 mg/m ³	Chronic effects systemic			
Workers	Dermal	12 mg/kg bw/day	Chronic effects systemic			
Consumers	Oral	7 mg/kg bw/day	Chronic effects systemic			

PNEC

acetylacetone					
Route of exposure	Value	Value determination	Source		
Drinking water	0.2 mg/l				
Marine water	0.02 mg/l				
Sea sediments	0.191 mg/kg				
Freshwater sediment	1.909 mg/kg				
Soil (agricultural)	0.193 mg/kg				



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acetylacetone				
Route of exposure	Value	Value determination	Source	
Microorganisms in sewage treatment	1.32 mg/l			

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product (butyl rubber, Viton). Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

Respiratory protection

Use insulating breathing apparatus when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1.	Information on basic physical and chemical properties				
	Physical state	liquid			
	Colour	colourless			
	Odour	acrid			
	Melting point/freezing point	-23 °C			
	Boiling point or initial boiling point and boiling range	140 °C			
	Flammability	Flammable liquid and vapour.			
	Lower and upper explosion limit				
	bottom	1.7 %			
	upper	11.4 %			
	Flash point	38 °C			
	Auto-ignition temperature	data not available			
	Decomposition temperature	data not available			
	рН	6 (200 g/1% solution at 20 °C)			
	Kinematic viscosity	data not available			
	Solubility in water	data not available			
	Solubility in fats	data not available			
	Partition coefficient n-octanol/water (log value)	0.4			
	Vapour pressure	0.8 kPa at 20 °C			
	Density and/or relative density				
	Density	0.97 g/cm ³			
	Relative density	data not available			
	Relative vapour density	data not available			
	Particle characteristics	data not available			
9.2.	Other information				
	Evaporation rate	data not available			
	Oxidising properties	It is not oxidising.			



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	Ignition temperature		350 °C				
	Explosive properties		data not available	2			
	Vapour density		data not available				
10.2.	The substance is flam Chemical stability						
10.3.	•	under normal conditions. dous reactions					
10.4.			under normal use. Protect	against flames, sparks, overheating and			
10.5.	5	rials					
	Protect against strong	g acids, bases and oxidizing	agents.				
10.6.	-		-				

5. Hazardous decomposition products Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 No toxicological data is available for the substance.

Acute toxicity

Harmful if swallowed. Toxic in contact with skin or if inhaled.

acetylacetone						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	
Oral	LD50	575 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD50	790 mg/kg		Rabbit		
Inhalation (vapor)	LC50	5.1 mg/l	4 hours	Rat (Rattus norvegicus)		

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Irritation

acetylacetone					
Route of exposure	Result	Exposure time	Species		
Skin	Slightly irritating				
Eye	Slightly irritating				

Serious eye damage/irritation

No data available for the substance. Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

No data available for the substance. Based on available data the classification criteria are not met.



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Germ cell mutagenicity

No data available for the substance. Based on available data the classification criteria are not met.

Carcinogenicity

No data available for the substance. Based on available data the classification criteria are not met.

Reproductive toxicity

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

No data available for the substance. Based on available data the classification criteria are not met.

Aspiration hazard

No data available for the substance. Based on available data the classification criteria are not met.

11.2. Information on other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data the classification criteria are not met. Acute toxicity

acetylacetone				
Parameter	Value	Exposure time	Species	Environment
LC50	72 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC₅o	75 mg/l	48 hours	Daphnia (Daphnia magna)	

12.2. Persistence and degradability

The following data are available.

Biodegradability

acetylacetone				
Parameter	Value	Exposure time	Environment	Result
	79-88 %	28 days		Biodegradable

12.3. Bioaccumulative potential

The following data are available.

acetylacetone

Parameter Value Exposure time Species Environment Temperature [°C] Log Pow <1	act						
Log Pow <1	Pa	rameter	Value	Exposure time	Species	Environment	[90]
	Lo	g Pow	<1				



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12.4. Mobility in soil

No data available for the substance.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

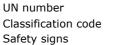
SECTION 14: Transport information

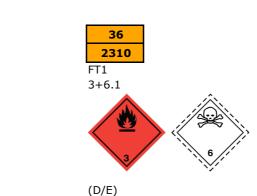
- 14.1. UN number or ID number
 - UN 2310
- **14.2.** UN proper shipping name PENTANE-2,4-DIONE
- **14.3.** Transport hazard class(es)3 Flammable liquids
- 14.4. Packing group
 - Ш
- 14.5. Environmental hazards
- not relevant **14.6. Special precautions for user**
 - not available

14.7. Maritime transport in bulk according to IMO instruments not relevant

Additional information

Hazard identification No.







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Air transport	- ICAO/IATA			
Packaging instructions passenger		355		
Cargo packaging instructions		366		
Marine transport - IMDG				
EmS (emergency plan)		F-E, S-D		

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

A list of standard risk phrase	es used in the safety data sheet		
H226	Flammable liquid and vapour.		
H302	Harmful if swallowed.		
H311+H331	Toxic in contact with skin or if inhaled.		
Guidelines for safe handling	used in the safety data sheet		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
P261	Avoid breathing par, aerosolů		
P280	Wear protective gloves.		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P311	Call a POISON CENTER.		
Other important information	about human health protection		
	ess specifically approved by the manufacturer/importer - used for purposes other than s responsible for adherence to all related health protection regulations.		
Key to abbreviations and ac	ronyms used in the safety data sheet		
ADR	European agreement concerning the international carriage of dangerous goods by road		
BCF	Bioconcentration Factor		
CAS	Chemical Abstracts Service		
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures		
EC	Identification code for each substance listed in EINECS		
EC50	Concentration of a substance when it is affected 50% of the population		
EINECS	European Inventory of Existing Commercial Chemical Substances		
EmS	Emergency plan		
EU	European Union		
EuPCS	European Product Categorisation System		
IATA	International Air Transport Association		
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals		
ICAO	International Civil Aviation Organization		
IMDG	International Maritime Dangerous Goods		

penta[°]CHEMICALS UNLIMITED

Safety data sheet

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

Acetylacetone Creation date 21st March 2017 Revision date 22nd April 2024 Version 6.0 IMO International Maritime Organization INCI International Nomenclature of Cosmetic Ingredients ISO International Organization for Standardization IUPAC International Union of Pure and Applied Chemistry Lethal concentration of a substance in which it can be expected death of 50% of the LC 50 population LD 50 Lethal dose of a substance in which it can be expected death of 50% of the population Octanol-water partition coefficient loa Kow OEL Occupational Exposure Limits PBT Persistent, Bioaccumulative and Toxic Parts per million ppm Registration, Evaluation, Authorisation and Restriction of Chemicals REACH RID Agreement on the transport of dangerous goods by rail Four-figure identification number of the substance or article taken from the UN UN Model Regulations UVCB Substances of unknown or variable composition, complex reaction products or biological materials VOC Volatile organic compounds vPvB Very Persistent and very Bioaccumulative Acute Tox. Acute toxicity

Flam. Liq. Flammable liquid

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 6.0 replaces the SDS version from 15 March 2023. Changes were made in sections 1, 2, 13, 15 and 16.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.