

1.	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1	Product identifiers		
	Product name	:	Acetic anhydride-d6
	CAS-No.	:	16649-49-3
1.2	Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	:	Laboratory chemicals, Manufacture of substances
2.	HAZARDS IDENTIFICATION		
2.1	Classification of the substance or mixture		
	Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]		
	Flammable liquids (Category 3)		
	Acute toxicity, Inhalation (Category 4)		
	Acute toxicity, Oral (Category 4)		
	Skin corrosion (Category 1B)		
	Classification according to EU Directives 67/548/EEC or 1999/45/EC		
	Flammable, Causes burns. Harmful by inhalation and if swallowed.		
2.2	Label elements		
	Labelling according Regulation (EC) No 1272/2008 [CLP]		
	Pictogram		
	Signal word	Danger	
	Hazard statement(s)		
	H226	Flammable liquid and vapour.	
	H302	Harmful if swallowed.	
	H314	Causes severe skin burns and eye damage.	
	H332	Harmful if inhaled.	
	Precautionary statement(s)		
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.	
	P305 + P351 + P338	IF IN EYES; Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
	P310	Immediately call a POISON CENTER or doctor/ physician.	
	Supplemental Hazard Statements	none	
	According to European Directive 67/548/EEC as amended.		
	Hazard symbol(s)		
	R-phrases(s)		
	R10	Flammable.	
	R20/22	Harmful by inhalation and if swallowed.	
	R34	Causes burns.	
	S-phrases(s)		
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.	
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.	
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).	
2.3	Other hazards		
	Lachrymator., Reacts violently with water.		
3.	COMPOSITION/INFORMATION ON INGREDIENTS		
3.1	Substances		
	Formula	:	C4D6O3
	Molecular Weight	:	108,13 g/mol
	Component		Concentration
	Acetic anhydride-d6		
	CAS-No.	16649-49-3	-
	EC-No.	240-697-0	

4.	FIRST AID MEASURES		
4.1	Description of first aid measures		
	General advice		
	Consult a physician. Show this safety data sheet to the doctor in attendance.		
	If inhaled		
	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.		
	In case of skin contact		
	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.		
	In case of eye contact		
	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.		
	If swallowed		
	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.		
4.2	Most important symptoms and effects, both acute and delayed		
	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting		
4.3	Indication of any immediate medical attention and special treatment needed		
	no data available		

5.	FIRE-FIGHTING MEASURES		
5.1	Extinguishing media		
	Suitable extinguishing media		
	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		
5.2	Special hazards arising from the substance or mixture		
	Carbon oxides		
5.3	Advice for firefighters		
	Wear self contained breathing apparatus for fire fighting if necessary.		
5.4	Further information		
	Use water spray to cool unopened containers.		
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.		
6.3	Methods and materials for containment and cleaning up		
	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).		
6.4	Reference to other sections		
	For disposal see section 13.		

7.	HANDLING AND STORAGE		
7.1	Precautions for safe handling		
	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.		
7.2	Conditions for safe storage, including any incompatibilities		
	Store in cool place. 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. Store under inert gas. hygroscopic		
7.3	Specific end uses		
	no data available		

8.	EXPOSURE CONTROLS/PERSONAL PROTECTION		
8.1	Control parameters		
	Components with workplace control parameters		
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.		
	Personal protective equipment		
	Eye/face protection		
	Tightly fitting safety goggles, Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).		
	Skin protection		
	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.		
	The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.		
	Body Protection		
	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.		
	Respiratory protection		
	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).		

9.	PHYSICAL AND CHEMICAL PROPERTIES		
9.1	Information on basic physical and chemical properties		
	a)	Appearance	Form: clear, liquid Colour: colourless
	b)	Odour	no data available
	c)	Odour Threshold	no data available
	d)	pH	no data available
	e)	Melting point/freezing point	Melting point/range: -73 °C - lit.
	f)	Initial boiling point and boiling range	138 - 140 °C - lit.
	g)	Flash point	49 °C - closed cup
	h)	Evaporation rate	no data available
	i)	Flammability (solid, gas)	no data available
	j)	Upper/lower flammability or explosive limits	no data available
	k)	Vapour pressure	no data available
	l)	Vapour density	no data available
	m)	Relative density	1,143 g/mL at 25 °C
	n)	Water solubility	no data available
	o)	Partition coefficient: n-octanol/water	no data available
	p)	Autoignition temperature	no data available
	q)	Decomposition temperature	no data available
	r)	Viscosity	no data available
	s)	Explosive properties	no data available
	t)	Oxidizing properties	no data available
9.2	Other safety information		
	no data available		

10.	STABILITY AND REACTIVITY		
10.1	Reactivity		
	no data available		
10.2	Chemical stability		
	no data available		
10.3	Possibility of hazardous reactions		
	no data available		
10.4	Conditions to avoid		
	Heat, flames and sparks.		
10.5	Incompatible materials		
	Acids, Powdered metals, Alcohols, Bases, Oxidizing agents, Reducing agents		
10.6	Hazardous decomposition products		
	Other decomposition products - no data available		

no data available	
Serious eye damage/eye irritation	
no data available	
Respiratory or skin sensitization	
no data available	
Germ cell mutagenicity	
no data available	
Carcinogenicity	
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	
no data available	
Specific target organ toxicity - single exposure	
no data available	
Specific target organ toxicity - repeated exposure	
no data available	
Aspiration hazard	
no data available	
Potential health effects	
Inhalation	Harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion	Harmful if swallowed. Causes burns.
Skin	May be harmful if absorbed through skin. Causes skin burns.
Eyes	Causes eye burns.
Signs and Symptoms of Exposure	
Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and	

Signs and Symptoms of Exposure			
Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting			
Additional Information			
RTECS: Not available			

12.	ECOLOGICAL INFORMATION		
12.1	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	Results of PBT and vPvB assessment		
	no data available		
12.6	Other adverse effects		
	no data available		

14.	TRANSPORT INFORMATION		
14.1	UN number		
	ADR/RID: 1715	IMDG: 1715	IATA: 1715
14.2	UN proper shipping name		
	ADR/RID: ACETIC ANHYDRIDE		
	IMDG: ACETIC ANHYDRIDE		
	IATA: Acetic anhydride		
14.3	Transport hazard class(es)		
	ADR/RID: 8 (3)	IMDG: 8 (3)	IATA: 8 (3)
14.4	Packaging group		
	ADR/RID: II	IMDG: II	IATA: II
14.5	Environmental hazards		
	ADR/RID: no	IMDG Marine pollutant: no	IATA: no

15.	REGULATORY INFORMATION		
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	no data available		
15.2	Chemical Safety Assessment		
	no data available		

16.	OTHER INFORMATION		
	Further information		
	For R&D use only. Not for drug, household or other uses.		



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WARRANTY:
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.