

MSDS

Material Safety Data Sheet

Acetone



1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY				
PRODUCT NAME	Acetone			
RECOMMENDED USE &	Received use only			
RESTRICTIONS ON USE	Research use only			
INFORMATION OF MANUFACTURER/IMPORTER/SUPPLIER				
COMPANY				
ADDRESS				
EMERGENCY PHONE				
E-MAIL ADDRESS				

2. HAZARDS	IDENTIFICATIO	N	
GHS CLASSIFICATI ON	Flammable liquids : Category 2 Eye irritation : Category 2 Specific target organ toxicity - single exposure : Category 3		
	PICTOGRAM		
	HAZARD	DANGER	
LADEL	SYMBOL	DANGER	
STAT	HAZARD STATEMENTS	Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.	
	PRECAUTIONAR Y STATEMENTS	Keep away from heat/sparks/open flames/hot surfaces No smoking. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue	



		rinsing.
OTHER HAZARDS	none	

3. COMPOSITION/INFORMATION ON INGREDIENTS						
CHEMILCAL IDENTITY	SYNONYMS	CAS NUMBER	ASSAY			
Ethyl ether	Diethyl ether; Ether	60-29-7	Above 99.5%(GR, HPLC); Above 99%(EP)			

4. FIRST AID MEASURES				
GENERAL ADVICE	Consult a physician. Show this safety data sheet to the doctor in			
OLIVEIVAL ADVIOL	attendance.			
IN CASE OF EYE	Rinse thoroughly with plenty of water for at least 15 minutes and			
CONTACT	consult a physician.			
IN CASE OF SKIN	Mach off with a an and planty of water Canault a physician			
CONTACT	Wash off with soap and plenty of water. Consult a physician			
IF INHALED	If breathed in, move person into fresh air. If not breathing, give			
IF INHALED	artificial respiration. 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.			

5. FIRE FIGHTING MEASURES				
EXTINGUISHING MEDIA	XTINGUISHING MEDIA Use water spray, alcohol-resistant foam, dry chemical or carbo dioxide.			
SPECIFIC HAZARDS ARISING FROM THE	Carbon oxides			



CHEMICAL									
SPECIAL PROTECTIVE									
EQUIPMENT AND	Wear	self	contained	breathing	apparatus	for	fire	fighting	if
PRECAUTIONS FOR	necess	sary.							
FIREFIGHTERS:									

6. ACCIDENTAL RELEASE MEASURES				
PERSONAL PRECAUTIONS	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.			
ENVIRONMENTAL	Prevent further leakage or spillage if safe to do so. Do not let			
PRECAUTIONS	product enter drains.			
METHODS FOR 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).			

7. HANDLING AND STORAG				
PRECAUTION FOR SAFE HANDLING	Avoid contact with skin and eyes. Avoid inhalation of vapour or mis Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.			
CONDITIONS FOR SAFE STORAGE	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.			

8. EXPOSURE CONTROLS/PERSONAL PROTECTION			
APPROPRIATE	ENGINEERING	Handle in accordance with good industrial hygiene and safety	
CONTROLS:		practice. Wash hands before breaks and at the end of workday.	
INDIVIDUAL	RESPIRATORY	Where risk assessment shows air-purifying respirators are	
PROTECTION PROTECTION		appropriate use a full-face respirator with multi-purpose	



MEAGUETS		11 (1 (10) (10) (10)
MEASURES		combination (US) or type AXBEK (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).
	EYE	Face shield and safety glasses Use equipment for eye protection
	PROTECTION	tested and approved under appropriate government standards
	PROTECTION	such as NIOSH (US) or EN 166(EU).
		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.
		Immersion protection
		Material: butyl-rubber
	SKIN	Minimum layer thickness: 0,3 mm
	PROTECTION	Break through time: > 480 min
		Material tested:Butoject® (Aldrich Z677647, Size M)
		Splash protection
		Material: butyl-rubber
		Minimum layer thickness: 0,3 mm
		Break through time: > 30 min
		Material tested:Butoject® (Aldrich Z677647, Size M) data source:
		KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-
		mail sales@kcl.de, test method: EN374
		If used in solution, or mixed with other substances, and under
		conditions which differ from EN 374, contact the supplier of the
		CE approved gloves. This recommendation is advisory only and



	must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
	impervious clothing, Flame retardant antistatic protective clothing,
BODY	The type of protective equipment must be selected according to
PROTECTION	the concentration and amount of the dangerous substance at the
	specific workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES		
APPEARANCE	FORM	Liquid
	COLOR	Colorless
ODC	OUR	No data
ODORODOUR THI	RESHOLD VALUE	No data
pl	1	No data
FREEZING	POINT :	No data
INITIAL BOIL	ING POINT	56 ℃ at 1.013 hPa - lit.
FLASH	POINT	-17,0 ℃ - closed cup
EVAPORAT	ING RATE	No data
FLAMMABILIT	ΓY(solid, gas)	No data
EVDI OON	VE LINUTO	Upper explosion limit: 13 %(V)
EXPLOSIV	E LIMITS	Lower explosion limit: 2 %(V)
\/A DOD DE) FOOLIDE	533,3 hPa at 39,5 ℃
VAPOR PRESSURE		245,3 hPa at 20,0 ℃
SOLUBILITY IN	WATER	passes test JIS K 8034
VAPOR D	ENSITY	No data
RELATIVE DENSITY		No data
PARTITION COEFFICIENT: N-		
OCTANOL/WATER		log Pow: -0,24
AUTOIGNITION TEMPERATURE		465,0 ℃
DECOMPOSITION TEMPERATURE		No data
VISCOSITY		No data



10. STABILITY AND REACTIVITY		
CHEMICAL STABILITY &		
POSSIBILITY OF HAZARDOUS	no data	
REACTIONS		
CONDITIONS TO AVOID	Heat, flames and sparks. Extremes of temperature and direct	
	sunlight.	
INCOMPATIBILE MATERIALS	Bases, Oxidizing agents, Reducing agents, Acetone reacts	
	violently with phosphorous oxychloride	
HAZARDOUS DECOMPOSITION	Other decomposition products - no data available	
PRODUCTS	Other decomposition products - no data available	

11. TOXICOLOGICAL INFORMATION		
INFORMATION		
ON THE LIKELY	No data	
ROUTES OF		
EXPOSURES:		
		LD50 Oral - rat - 5.800 mg/kg
	ACUTE TOXICITY	Remarks: Behavioral:Altered sleep time (including
		change in righting reflex). Behavioral:Tremor.
		LC50 Inhalation - rat - 8 h - 50.100 mg/m3
		LD50 Dermal - guinea pig - 7.426 mg/kg
HEALTH HAZARD	SKIN CORROSION/	Skin - rabbit - Mild skin irritation - 24 h
	SKIN IRRITATION	SKIII - TADDIL - WIIIU SKIIT IITILALIOTI - 24 II
INFORMATION	EYE DAMAGE/	Eyes - rabbit - Eye irritation - 24 h
	RESPIRATORY	Lyes - labbit - Lye ilitiation - 24 II
		Chronic exposure may cause dermatitis.
	SENSITIZATION	Chronic exposure may cause dermains.
	SKIN SENSITIZATION	No data
	CARCINOGENICITY	IARC: No data
		OSHA: No data



	ACGIH: No data
	NTP: No data
	EU CLP: No data
GERM CELL	
MUTAGENICITY	No data
TOXIC TO	No data
REPRODUCTION	NO data
SPECIFIC TARGET	
ORGAN TOXICITY	May cause drowsiness or dizziness.
SINGLE EXPOSURE	
SPECIFIC TARGET	
ORGAN TOXICITY	No data
REPEATED EXPOSURE	
ASPIRATION HAZARD	No data

12. ECOLOGICAL INFORMATION		
	TO FISH	LC50 - Oncorhynchus mykiss (rainbow
		trout) - 5.540,00 mg/l - 96 h
ECOTOXICITY	TO CRUSTACEA	No data
	TO OTHER AQUATIC	EC50 - Daphnia magna (Water flea) -
	LIFE	13.500,00 mg/l - 48 h
PERSISTENCE/	PERSISTENCE	No data
DEGRADABILITY	DEGRADABILITY	No data
BIOACCUMULATION	ACCUMUKATION	No data
POTENTIAL	BIODEGRADABILITY	No data
MOBILITY IN SOIL		No data
OTHER ADVERSE EFFECTS		No data

13. DISPOSAL CONSIDERATION		
DISPOSAL METHODS	Burn in a chemical incinerator equipped with an	
DISPOSAL METHODS	afterburner and scrubber but exert extra care in	



	igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
DISPOSAL CONSIDERATIONS	No data.

14. TRANSPORT INFORMATION		
IATA		
UN NUMBER	1090	
UN PROPER SHIPPING NAME	Acetone	
TRANSPORT HAZARD CLASS	3	
PACKING GROUP	II	
MARINE POLLUTANT	No	
SPECIAL PRECAUTIONS FOR USER		

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

16. OTHER INFORMATION		
REFERENCES AND SOURCES	Wako Corporation	
FOR DATA	Sigma Aldrich Corporation	
	The information in this MSDS is based on several	
	references and the present state of our knowledge.	
OTHER	However, the MSDS dose not always cover all information	
OTTER	about product. The information in this MSDS is only	
	provision of information, and It does not represent any	
	guarantee of the properties of the product.	

