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Material Safety Data Sheet

2-Acetylbutyrolactone

Section 1: Chemical Product and Company Identification

Molecular formula: C₆H₈O₃

CAS Nr: 517-23-7

EINECS:208-235-2

Molecular weight:128.13

Synonyms: α-Acetylbutyrolactone

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
2-Acetylbutyrolacton	517-23-7	100

Section 3: Hazards Identification

POTENTIAL HEALTH EFFECTS

Eye	Causes eye irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Ingestion	May be harmful if swallowed.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Chronic	

Section 4: First Aid Measures

Eyes	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin	Wash off with soap and plenty of water. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Inhalation	If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.
Notes to Physician	

Section 5: Fire Fighting Measures

General Information	Wear self contained breathing apparatus for fire fighting if necessary.
Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Section 6: Accidental Release Measures

General Information	Use proper personal protective equipment as indicated in section 8.
Spills/Leaks	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.
Storage	Store in a cool, dry place. Store in a tightly closed container.

Section 8: Exposure Controls/Personal Protection

Engineering Controls	
Not available.	
PERSONAL PROTECTIVE EQUIPMENT	
Eyes	Face shield and safety glasses.
Skin	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Clothing	Wear appropriate protective clothing to prevent skin exposure.
Respirators	Where risk assessment shows air-purifying respirators are appropriate use a fullface 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).

Section 9: Physical and Chemical Properties	
Physical State	Liquid
Color	Colorless
Odor	Not available
pH	Not available
Vapor Pressure	Not available
Viscosity	Not available
Boiling Point	107-108°C/5.0mmHg
Freezing/Melting Point	Not available
Autoignition Temperature	Not available
Flash Point	113°C
Explosion Limits, lower	Not available
Explosion Limits, upper	Not available
Decomposition Temperature	Not available
Solubility in water	Not available
Specific Gravity/Density	1.19
Molecular Formula	C6H8O3
Molecular Weight	128.13

Section 10: Stability and Reactivity Data	
Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Incompatible materials.
Incompatibilities with Other Materials	Strong oxidizing agents, Strong bases.
Hazardous Decomposition Products	Hazardous decomposition products formed under fire conditions. - Carbon oxides.
Hazardous Polymerization	Will not occur.

Section 11: Toxicological Information	
RTECS#	CAS#517-23-7: None listed.
LD50/LC50	Not available.
Carcinogenicity	2-Acetylbutyrolactone- Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other	

Section 12: Ecological Information	
Not available.	

Section 13: Disposal Considerations	
Dispose of in a manner consistent with federal, state, and local regulations.	

Section 14: Transport Information			
	IATA	IMO	RID/ADR
Shipping Name	Not available	Not available	Not available
Hazard Class			
UN Number			
Packing Group			

Section 15: Other Regulatory Information
<p>European/International Regulations</p> <p>Hazard Symbols Xi</p> <p>Risk Phrases R 36/37/38:Irritating to eyes, respiratory system and skin.</p> <p>Safety Phrases S 26:In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36:Wear suitable protective clothing.</p> <p>WGK (Water Danger/Protection) CAS#517-23-7:1.</p>

Section 16: Other Information
<p>References: Not available.</p> <p>Other Special Considerations: Not available.</p> <p>Created: 10/09/2005 05:14 PM</p> <p>Last Updated: 05/21/2013 12:00 PM</p> <p><i>The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we are liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.</i></p>