

Material Safety Data Sheet	
Acetic anhydride	

Section 1 - Chemical Product and Company Identification						
MSDS Name: Acetic anhydride						
Catalog	14949-0000, 14949-0010, 14949-0025, 14949-0250, 22213-0000, 22213-0010, 22213-0025,					
Numbers:	22213-5000, 42323-0000, 42323-0010, 42323-0050, 42323-5000					
Synonyms:	Acetyl oxide					
Company Identification:		Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium				
Company Identification: (USA)		Acros Organics One Reagent Lane Fair Lawn, NJ 07410				
For information in the US, call:			800-ACROS-01			
For information in Europe, call:		+32 14 57 52 11				
Emergency Number, Europe:		+32 14 57 52 99				
Emergency Number US:		201-796-7100				
CHEMTREC Phone Number, US:		800-424-9300				
CHEMTREC Phone Number, Europe:		703-527-3887				
Section 2 - Composition, Information on Ingredients						
		CAS#	Chemical Name:	%	EINECS#	

108-24-7 Acetic anhydride >97% 203-564-8

Hazard Symbols:



**Risk Phrases:** 

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Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Flammable. Harmful by inhalation and if swallowed. Causes burns.

Potential Health Effects

Eye:	Causes eye burns. Lachrymator (substance which increases the flow of tears).
Skin:	Causes skin burns.
Ingestion:	Harmful if swallowed. Causes gastrointestinal tract burns.
Inhalation:	Harmful if inhaled. Causes chemical burns to the respiratory tract.
Chronic:	

Section 4 - First Aid Measures

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin:	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Do not induce vomiting. Get medical aid immediately.
Inhalation:	Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:	Treat symptomatically and supportively.					
-	Section 5 - Fire Fighting Measures					
General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (appro					
Extinguishin Media:	$\sim$					
	Section 6 - Accidental Release Measures					
General Information:	Use proper personal protective equipment as indicated in Section 8.					
Spills/Leaks	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment.					
	Section 7 - Handling and Storage					
Handling: U ey	se spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in ves, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood.					
Storage: K	eep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables- ea. Corrosives area.					
	Section 8 - Exposure Controls, Personal Protection					
Engineering	Controls:					
	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.					
Exposure Limits						
	CAS# 108-24-7:					
	United Kingdom, WEL - TWA: 0.5 ppm TWA; 2.5 mg/m3 TWA United Kingdom, WEL - STEL: 2 ppm STEL; 10 mg/m3 STEL					
	United States OSHA: 5 ppm TWA; 20 mg/m3 TWA					
	Belgium - TWA: 5 ppm VLE; 21 mg/m3 VLE					
	France - VLE: 5 ppm VLE; 20 mg/m3 VLE					
	Germany: 5 ppm TWA; 21 mg/m3 TWA					
	Japan: 5 ppm Ceiling; 21 mg/m3 Ceiling					
	Malaysia: 5 ppm TWA; 21 mg/m3 TWA					
	Spain: 5 ppm VLA-ED; 21 mg/m3 VLA-ED					
Personal Pro	otective Equipment					
Eyes:	Wear chemical splash goggles.					
Skin:	Wear appropriate protective gloves to prevent skin exposure.					
Clothing:						
Respirators:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.					
	Section 9 - Physical and Chemical Properties					
	Physical State: Clear liquid					
	Color: colorless					
	Odor: acetic odor - pungent odor					
	pH: 3 (10 g/l aq.sol (20°C))					
	Vapor Pressure: 5mbar @20 deg C					
	Viscosity: 0.91 mPa.s @20 deg C					
	Boiling Point: 140 deg C @760mmHg ( 284.00°F)					

Freezing/Melting Point: -73.1 deg C ( -99.58°F)

Autoignition Temperature: 316 deg C ( 600.80 deg F)						
Flash Point: 54 deg C ( 129.20 deg F)						
Explosion Limits: Lower: 2 Vol %						
Explosion Limits: Upper: 12 Vol %						
	Decomposition Tempe	erature: Not available				
	Solubility ir	water: Reacts				
	Specific Gravity/D	•				
	Molecular Fo	ormula: C4H6O3				
	Molecular V	Weight: 102.09				
	Section 10	- Stability and Reactivity				
Chemical Stability:	Moisture sensitive.					
Conditions to Avoid:	Incompatible materials, ignition sources, exposure to moist air or water.					
Incompatibilities with Other Materials	Metals, strong oxidizing agents, reducing agents, bases, alcohols, amines, ammonia, nitrates, nitric acid, permanganates, phenols, sodium hydroxide, hydrogen peroxide, chromium trioxide, potassium hydroxide, perchloric acid, ethanol.					
Hazardous Decomposition Products	Carbon monoxide, carbon die	oxide.				
Hazardous Polymerization	Has not been reported.					
	Section 11 -	· Toxicological Information				
RTECS#: CA	AS# 108-24-7: AK1925000					
RT	ECS:					
	S# 108-24-7: Inhalation, rat: L	LC50 = 1000  ppm/4H;				
	al, rat: LD50 = 1780 mg/kg; in, rabbit: LD50 = 4 mL/kg;					
Oth	ner: Oral, rat: LD50 = 630 mg/k	g				
	etic anhydride - Not listed as a d	•	NTP, or CA Prop 65.			
<b>e</b>	e actual entry in RTECS for com		· •			
	Section 12	- Ecological Information	-			
FCOLOXICIIV	Fish: Leuciscus idus: LC50 = 26 Daphnia: Daphnia: EC50 = 55 m					
Other: Do not en	mpty into drains. Readily biodeg = -0.2 Biodegradation: >95% (	gradable.				
10g I 0w	-	- Disposal Considerations				
Dianaga afin a mannar		•				
Dispose of in a manner	consistent with federal, state, and	-				
		4 - Transport Information				
China in a Manaa	IATA	IMO	RID/ADR			
Shipping Name: Hazard Class:	ACETIC ANHYDRIDE 8 (3)	ACETIC ANHYDRIDE 8 (3)	ACETIC ANHYDRIDE 8 (3)			
UN Number:	1715	1715	1715			
Packing Group:	II	II	II			
•	24-7: 5000 lb final RQ; 2270 kg	g final RO				
Section 15 - Regulatory Information						
European/International Regulations						
European Labeling in Accordance with EC Directives						
Hazard Symbols: C						
Risk Phrases:						
R 10 Flammable.						
R 10 Flammable.						

R 20/22 Harmful by inhalation and if swallowed.

R 34 Causes burns.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 108-24-7: 1

## Canada

CAS# 108-24-7 is listed on Canada's DSL List

## US Federal

### TSCA

CAS# 108-24-7 is listed on the TSCA Inventory.

# Section 16 - Other Information MSDS Creation Date: 9/23/1996 Revision #2 Date 2/06/2008 Revisions were made in Sections: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10,

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