

Material Safety Data Sheet Tri-n-octylaluminium, 0.3M solution in heptane

MSDS# 09702

	Section 1 - Chemical Product and Company Identification		
MSDS Name:	Tri-n-octylaluminium, 0.3M solution in heptane		
Catalog Numbers:	AC377550000, AC377551000, AC377558000		
Synonyms:	None Known.		
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

Risk Phrases: 11 38 50/53 65	67	
CAS#:	142-82-5	
Chemical Name:	Heptane (n-)	
%:	80	
EINECS#:	205-563-8	
Hazard Symbols:	F N XN	
Risk Phrases:		
CAS#:	1070-00-4	
Chemical Name:	Aluminum, triocty	
%:	15	

tyl-15 213-964-4

Hazard Symbols:

EINECS#:

Text for R-phrases: see Section 16

Hazard Symbols:



Risk Phrases:

F C N



11 14/15 35 50/53 65 67 Section 3 - Hazards Identification EMERGENCY OVERVIEW



Warning! Flammable liquid and vapor. Water-reactive. Dangerous for the environment. Aspiration hazard if swallowed. Can enter lungs and cause damage. Causes burns by all exposure routes. Breathing vapors may cause drowsiness and dizziness. Reacts violently with water liberating highly flammable gases. Target Organs: Central nervous system, lungs, respiratory system, eyes, skin.

Potential Health Effects

Eye: Causes eye burns.

Skin: Causes skin burns. Prolonged and/or repeated contact may cause defatting of the skin and dermatitis.

Causes gastrointestinal tract burns. Aspiration of material into the lungs may cause chemical pneumonitis, which Ingestion: may be fatal. May cause lung damage.

Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, Inhalation: dizziness, unconsciousness and coma. Causes chemical burns to the respiratory tract.

Chronic: Prolonged or repeated skin contact may cause dermatitis.

Section 4 - First Aid Measures Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower Eyes: eyelids. Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while Skin: removing contaminated clothing and shoes. Do not induce vomiting. Get medical aid immediately. Potential for aspiration if swallowed. Get medical aid immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by Ingestion: mouth to an unconscious person. If vomiting occurs naturally, have victim lean forward. Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is Inhalation: difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Treat symptomatically and supportively. Physician:

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Water reactive. Material will react with General water and may release a flammable and/or toxic gas. Flammable liquid and vapor. Vapors are heavier than Information: air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. This liquid floats on water and may travel to a source of ignition and spread fire.

Extinguishing Use dry sand or earth to smother fire. DO NOT USE WATER! Use dry chemical. Media:

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits: Lower: Not available

Explosion Not available Limits: Upper:

NFPA Rating: ; Special Hazard: -W-

Section 6 - Accidental Release Measures

General Use proper personal protective equipment as indicated in Section 8. Information: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions Spills/Leaks: in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. Do not expose spill to water. A vapor suppressing foam may be used to reduce vapors.

Section 7 - Handling and Storage

Do not allow water to get into the container because of violent reaction. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Do not breathe dust, mist, or vapor. Handling: Do not get in eyes, on skin, or on clothing. Do not allow contact with water. Use only in a chemical fume hood. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open

flames. Keep away from heat, sparks and flame.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammablesarea. Corrosives area. Water free area. Store under nitrogen.

Chemical Name	+ ACGIH 	+	OSHA - Final PELs
Heptane (n-) 			500 ppm TWA; 2000 mg/m3 TWA
Aluminum, trioctyl-	 none listed +	 none listed +	 none listed

Section 8 - Exposure Controls, Personal Protection

OSHA Vacated PELs: Heptane (n-): 400 ppm TWA; 1600 mg/m3 TWA Aluminum, trioctyl-: None listed Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: 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: solvent odor pH: Not available Vapor Pressure: Not available Vapor Density: Not available Evaporation Rate: Not available Viscosity: Not available Boiling Point: Not available Freezing/Melting Point: Not available Decomposition Temperature: Solubility in water: vigorous reaction Specific Gravity/Density: 0.689 Molecular Formula: C24H51Al Molecular Weight: 366.65 Section 10 - Stability and Reactivity

Chemical Stability:	Reacts violently with water.
	Incompatible materials, ignition sources, exposure to air, temperatures above 65°C, exposure to moist air or water, evaporating to near dryness, allowing solvents to evaporate.
Incompatibilities with Other Materials	Acidic conditions, strong oxidizing agents, acids, alcohols, oxygen, organic halides, water.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, aluminum oxide, aluminum fumes.
Hazardous Polymerization	Has not been reported.

Section 11 - Toxicological Information

RTECS#:	CAS# 142-82-5: MI7700000 CAS# 1070-00-4: None listed RTECS:
	CAS# 142-82-5: Inhalation, rat: LC50 = 103 gm/m3/4H;
LD50/LC50:	RTECS: CAS# 1070-00-4:.
Carcinogenicity:	Heptane (n-) - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. Aluminum, trioctyl Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.
	Section 12 - Ecological Information
Ecotoxicity:	Fish: Goldfish: LC50 = 4.0 mg/L; 24 Hr.; Unspecified Fish: Mosquito Fish: LC50 = 4900 mg/L; 24 Hr.; Unspecified Fish: LC50 = 4900 mg/L; 24 Hr.; Unspecified
	Section 13 - Disposal Considerations
Dispose of in a 1	nanner consistent with federal, state, and local regulations.
	Section 14 - Transport Information
Hazard Class: 4.3 UN Number: UN3 Packing Group: I Canada TDG Shipping Name: H Hazard Class: 3 UN Number: UN1 Packing Group: II	EPTANES
	Section 15 - Regulatory Information
1	ational Regulations
-	Labeling in Accordance with EC Directives
	rd Symbols: F C N
	Phrases:
	R 11 Highly flammable.
	R 14/15 Reacts violently with water liberating extremely flammable gases. R 35 Causes severe burns.
]	R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R 65 Harmful: may cause lung damage if swallowed. R 67 Vapours may cause drowsiness and dizziness.
Safet	y Phrases:
1	S 6A Keep under nitrogen.
	 S 16 Keep away from sources of ignition - No smoking. 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 43B In case of fire, use fire-fighting equipment on basis of sodium chloride, sodium bicarbonate (never use water). S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where
-	possible).
WUK (Wa	ater Danger/Protection)

CAS# 142-82-5: 1

CAS# 1070-00-4: Not available

Canada

CAS# 142-82-5 is listed on Canada's DSL List

CAS# 1070-00-4 is listed on Canada's DSL List

Canadian WHMIS Classifications: B2, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 142-82-5 is listed on Canada's Ingredient Disclosure List

CAS# 1070-00-4 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 142-82-5 is listed on the TSCA Inventory. CAS# 1070-00-4 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 9/20/2004 Revision #3 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 the company be 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 the company has been advised of the possibility of such damages.
