

Material Safety Data Sheet 4,6-Dinitro-o-cresol, 98%, contains about 10% water

MSDS# 14711

	Section 1 - Chemical Product and Company Identification		
MSDS Name:	4,6-Dinitro-o-cresol, 98%, contains about 10% water		
Catalog Numbers:	AC188600000, AC188600010, AC188601000, AC188602500		
Synonyms:	DNOC; 2-Methyl-4,6-dinitrophenol.		
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	

Section 2 - Composition, Information on Ingredients

703-527-3887

CAS#:	534-52-1
Chemical Name:	4,6-Dinitro-o-cresol
%:	98
EINECS#:	208-601-1

Hazard Symbols:

CHEMTREC Phone Number, Europe:



Risk Phrases:

T+ N



26/27/28 38 41 43 44 50/53 68

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Causes skin irritation. May cause allergic skin reaction. Causes eye irritation and possible injury. May be fatal if inhaled, absorbed through the skin or swallowed. Danger of cumulative effects. Risk of explosion if heated under confinement. Target Organs: Central nervous system, respiratory system, gastrointestinal system, cardiovascular system. Potential Health Effects

Eye: Causes eye irritation and possible injury.

- Skin: Causes skin irritation. May be fatal if absorbed through the skin. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May cause skin discoloration.
- Ingestion: May be fatal if swallowed. Human fatalities have been reported from acute poisoning.
- Inhalation: May be fatal if inhaled. May cause respiratory tract irritation. May cause effects similar to those described for ingestion.
- Chronic: Repeated exposure may cause metabolic disturbances. There is a danger of cumulative effects. Possible risk of irreversible effects.

Section 4 - First Aid Measures . . .

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.					
POISON material. In case of contact, get medical aid immediately. Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.					
POISON material. If swallowed, get medical aid immediately. Only induce vomiting if directed to do so by					
POISON material. If inhaled, get medical aid immediately. Remove victim to fresh air. If not breathing, give					
	Section 5	- Fire Fighting Measures	5		
or equivaler thermal dec poses an ex may explod	it), and full protective gear omposition or combustion plosion hazard when dry. e when heated. Combustib	T. During a fire, irritating a n. Use water spray to keep Contact with metals may ble material; may burn but	and highly toxic gases may be p fire-exposed containers coo evolve flammable hydrogen g t does not ignite readily.	generated by I. This material gas. Containers	
g For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray.					
^{on} Not applica e:	ble.				
nt: Not applica	ble.				
^{on} Not availab er:	le				
^{on} Not availab er:	le				
g: health: 3; fla	mmability: 1; instability: 1;	,			
	Section 6 - A	Accidental Release Measu	ures		
eral Tration: Use proper personal protective equipment as indicated in Section 8.					
s/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.					
	Section 7	7 - Handling and Storage			
accumulation.	Do not get in eyes, on ski	in, or on clothing. Keep co		•	
re in a tightly c	losed container. Store in a		d area away from incompatib	le substances.	
	-				
al Name	ACGIH	NIOSH	OSHA - Final PELs		
ro-o-creso	0.2 mg/m3; Skin - potential	0.2 mg/m3 TWA 5			
	immediately. POISON mate of water for at Destroy conta POISON mate medical perso POISON mate artificial respin As in any fin or equivalent thermal dec poses an exp may explod For small fit dioxide, alco on Not applica on Not applica on Not applica on Not available er: Not available g: health: 3; fla Use proper Clean up sp place into a sh thoroughly a accumulation. quate ventilation re in a tightly c	immediately. POISON material. In case of contact, ge of water for at least 15 minutes while re Destroy contaminated shoes. POISON material. If swallowed, get me medical personnel. Never give anything POISON material. If inhaled, get medic artificial respiration. If breathing is diffic Section 5 As in any fire, wear a self-contained be or equivalent), and full protective gean thermal decomposition or combustion poses an explosion hazard when dry. may explode when heated. Combustib For small fires, use dry chemical, card dioxide, alcohol-resistant foam, or wa on Not applicable. t: Not applicable. on Not available er: on Not available er: on Not available er: on Not available er: on Not available clean up spills immediately, observing place into a suitable container for dis Section 6 - A Use proper personal protective equip Clean up spills immediately, observing place into a suitable container for dis Section 7 sh thoroughly after handling. Remove co accumulation. Do not get in eyes, on ski quate ventilation or respiratory protection re in a tightly closed container. Store in a son room locked. Section 8 - Expose 	immediately. POISON material. In case of contact, get medical aid immediatel of water for at least 15 minutes while removing contaminated clo Destroy contaminated shoes. POISON material. If swallowed, get medical aid immediately. On medical personnel. Never give anything by mouth to an unconsei POISON material. If inhaled, get medical aid immediately. Remo artificial respiration. If breathing is difficult, give oxygen. Section 5 - Fire Fighting Measures As in any fire, wear a self-contained breathing apparatus in pre or equivalent), and full protective gear. During a fire, irritating a thermal decomposition or combustion. Use water spray to keep poses an explosion hazard when dry. Contact with metals may may explode when heated. Combustible material; may burn bur For small fires, use dry chemical, carbon dioxide, or water spray dioxide, alcohol-resistant foam, or water spray. ^{ON} Not applicable. ^{ON} Not available ^{ON} Not available ^{ON} Not available ^{ON} Not available ^{ON} Not available ^{ON} Section 6 - Accidental Release Mease Use proper personal protective equipment as indicated in Sec Clean up spills immediately, observing precautions in the Prot place into a suitable container for disposal. Avoid generating d Section 7 - Handling and Storage sh thoroughly after handling. Remove contaminated clothing and y accumulation. Do not get in eyes, on skin, or on clothing. Keep co quate ventilation or respiratory protection. re in a tightly closed container. Store in a cool, dry, well-ventilated son room locked. Section 8 - Exposure Controls, Personal Pi ^{IN NOSH} ^{IN NOSH}	immediately. POISON material. In case of contact, get medical aid immediately. Immediately flush eyes or s of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothin Destroy contaminated shoes. POISON material. If swallowed, get medical aid immediately. Only induce vomiting if directe medical personnel. Never give anything by mouth to an unconscious person. POISON material. If inhaled, get medical aid immediately. Remove victim to fresh air. If not b artificial respiration. If breathing is difficult, give oxygen. Section 5 - Fire Fighting Measures As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOS or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be thermal decomposition or combustion. Use water spray to keep fire-exposed containers coo poses an explosion hazard when dry. Contact with metals may evolve flammable hydrogen g may explode when heated. Combustible material, may burn but does not ignite readily. For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry ch dioxide, alcohol-resistant foam, or water spray. Not applicable. The Not available Tr. Bin Not avail	

OSHA Vacated PELs: 4,6-Dinitro-o-cresol: 0.2 mg/m3 TWA

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 Personal Protective Equipment Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face Eyes: 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. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or **Respirators:** European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. Section 9 - Physical and Chemical Properties Physical State: Powder Color: yellow Odor: odorless pH: Not available Vapor Pressure: 0.00005 mm Hg @ 20 deg C Vapor Density: Not available Evaporation Rate: Not available Viscosity: Not available Boiling Point: 312 deg C (593.60°F) Freezing/Melting Point: 83-85 deg C Decomposition Temperature: Not available Solubility in water: sparingly soluble Specific Gravity/Density: Molecular Formula: C7H6N2O5 Molecular Weight: 198.13 Section 10 - Stability and Reactivity Chemical Stability: Stable under normal temperatures and pressures. Conditions to Avoid: Dust generation, excess heat, heating in a confined space. Incompatibilities with Other Materials Metals, strong oxidizing agents. Hazardous Decomposition Products Nitrogen oxides, carbon monoxide, carbon monoxide, carbon dioxide. Hazardous Polymerization Has not been reported. Section 11 - Toxicological Information RTECS#: CAS# 534-52-1: GO9625000 **RTECS**: CAS# 534-52-1: Draize test, rabbit, eye: 20 mg/24H Moderate; Draize test, rabbit, skin: 105 mg/9D (Intermittent) Mild; Oral, mouse: LD50 = 21 mg/kg; Oral, rabbit: LD50 = 24600 ug/kg;LD50/LC50: Oral, rat: LD50 = 7 mg/kg; Oral, rat: LD50 = 40 mg/kg; Skin, rabbit: LD50 = 1 gm/kg; Skin, rat: LD50 = 200 mg/kg; Carcinogenicity: 4,6-Dinitro-o-cresol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. Other: See actual entry in RTECS for complete information. Section 12 - Ecological Information

Ecotoxicity:Fish: Fathead Minnow: 1.54mg/L; 96H; Flow-throughEcotoxicity:Fish: Bluegill/Sunfish: 360ug/L; 96H; StaticFish: Rainbow trout: 66ug/L; 96H; Static

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT Shipping Name: DINITRO-O-CRESOL Hazard Class: 6.1 UN Number: UN1598 Packing Group: II Canada TDG Shipping Name: Not available Hazard Class: UN Number: Packing Group:

USA RQ: CAS# 534-52-1: 10 lb final RQ; 4.54 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T+ N

Risk Phrases:

R 26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

R 43 May cause sensitization by skin contact.

R 44 Risk of explosion if heated under confinement.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 68 Possible risk of irreversible effects.

Safety Phrases:

S 36/37 Wear suitable protective clothing and gloves.

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

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 534-52-1: Not available

Canada

CAS# 534-52-1 is listed on Canada's DSL List

Canadian WHMIS Classifications: D1A, 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# 534-52-1 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 534-52-1 is listed on the TSCA Inventory.

Section 16 - Other Information MSDS Creation Date: 9/02/1997 Revision #10 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.
