



MAGNAKRON

SAFETY DATA SHEET

Section 1: Chemical Product and Company Identification

Identification	Diocetyl Phthalate
Trade Name	KRONTRO-DOP
CAS #	117-81-7
Product use	Plasticizer. PVC compounds (footwear, films, sheeting, palmation, materials, tubing, electric cables and wires, vinyl floors and others)
Recommended Restrictions	Not available
Synonym(s)	Not available
Chemical formula	C ₂₄ H ₃₈ O ₄
Company information	Magnakron Corp. 300 Rike Drive Millstone Twp., NJ, 08535 732-928-5800 Info@magnakron.com Chemtrec: 1-800-424-9300
24 Hour Emergency response Information	
Chemtrec number	CCN620540

Section 2: Hazards identification

Most important hazards	May damage fertility. May damage the unborn child.
Product effects	Adverse Human Effects: May damage reproduction. May cause irritation to eye, skin, and respiratory and gastrointestinal tracts. May cause Central Nervous System depression. Environmental Effects: May cause harmful effects to aquatic life. Physical and Chemical Hazards: May produce acrid smoke and fumes if burning. Main Symptoms: May cause difficulty breathing. May cause redness, pain, burning sensation, lacrimation, photophobia, conjunctivitis, edema, and keratitis to eyes. Nausea, abdominal colic, and diarrhea. Irritation to throat and nose
Classification system adopted	European Chemical Bureau – European Community: Directive 67/548/EEC (substances). Hazard Class and Category: Reproductive toxicity – Category 2. Risk Phrases: R60: May impair fertility R61: May cause harm to the unborn child.
Classification system adopted	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of December 16, 2008. Hazard Class and Category: Reproductive toxicity – Category 1B Risk Phrases: H360FD; May damage fertility. May damage the unborn child.



MAGNAKRON



Section 3: Composition/information on ingredients

Components	CAS #	Percent
Diocetyl Phthalate (Magnum-DOP)	117-81-7	-

Section 4: First aid measures

First aid procedures

Inhalation

Remove to fresh air and keep at rest. Monitor respiratory function. If breathing is difficult, give oxygen. If necessary, give artificial respiration. Seek medical attention.

Skin

Remove contaminated clothing and shoes. Wash with plenty of soap and water. Seek medical attention.

Eye

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Ingestion

Rinse mouth of victim with plenty of water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

Notes to physician

Avoid contact with this product while helping the victim; keep the victim warm. Symptomatic treatment should include, above all, measure of support as correction of hydro electrolytic and metabolic disturbances.

Section 5: Fire-fighter measures

Suitable extinguishing media

Combustible if heated. Compatible with dry chemical, water spray, carbon dioxide, and polyvalent foam.

Specific hazards arising from the chemical

May produce acrid smoke and fumes if burning.

Protective equipment and precautions for firefighters

Wear positive-pressure self-contained breathing precautions for firefighters apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves).

Section 6: Accidental release measures

Personal precautions

Remove ignition sources. Do not touch damaged containers or spilled material unless wearing appropriate clothing. Avoid contact with skin and eyes. Use protective gloves, safety goggles, and protective clothing.

Environmental precautions

Product may cause harmful effects to aquatic life. Prevent from entering into watercourses, sewerage, and confined areas.

Methods for containment

Not available



Methods for cleaning up

Appropriate Containment Techniques: Collect product and place in an appropriate sealed container. In case of significant spill, contain it with earth dikes, sand, vermiculite, or other inert material.

Appropriate Clean-Up Procedures: Discard any product, waste, container, or wrapper available in an appropriate manner as not to harm the environment, according to federal regulations, state, and local. Inappropriate Containment or Clean-Up Techniques: Do not discard directly in the environment or sewage network.

Section 7: Handling and storage

Handling

Avoid inhalation, contact with skin and eyes. Do not handle near incompatible materials. Use proper personal protective equipment. Keep only in original container, in a cool, dry, well-ventilated place. Keep away from food. Store locked up. Keep out of reach of children. Avoid static electricity by grounding.

Storage

Hygiene measures

Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Wash hands before eating, drinking, smoking, or going to the toilet. Take off all contaminated clothing and wash before reuse.

Incompatible products

Strong oxidants, acids, and alkalis

Recommended packaging

Tanks of stainless steel, aluminum, or polyester resin reinforced, carbon steel drums.

Section 8: Exposure controls / personal protection

Substance	ACGIH TLV-TWA (mg/m ³)	MAK (mg/m ³)	OSHA PEL-TWA (mg/m ³)	NIOSH REL-TWA (mg/m ³)	NIOSH STEL (mg/m ³)
Diocetyl Phthalate	5	10	5	5	10

Recommended monitoring procedures

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of the chemical release. It is recommended that a safety shower and eye baths be available near the work site. Engineering controls are the most effective way of reducing product exposure.

Personal protective equipment

Eye/face protection

Protective safety goggles.

Skin protection

Protective gloves of rubber, nitrilic rubber, or neoprene, and protective clothing.

Respiratory protection

Half-face respirator for organic vapors. In cases of potential of exposure, use a supplied air-respirator, full face-piece, operated in positive-pressure mode.

Hand protection

Protective gloves of rubber, nitrilic rubber, or neoprene

Special precautions

Avoid wearing contact lenses while using this product

Hygiene measures

Do not eat, drink, or smoke while using this product. Wash hands before eating, drinking, smoking, or going to the toilet. Take off all contaminated clothing and wash before reuse.

Section 9: Physical and chemical properties

Appearance

Physical state

Liquid

Color

Odor

Odorless to weak and characteristic



MAGNAKRON

pH	Not applicable
Melting point/Freezing point	-50° C (-58° F)
Boiling point	386° C (727° F) a 760mmHg
Flash point	215° C (419° F) (open cup)
Evaporation rate	Very low. Butyl acetate = 1
Flammability limits in air, lower % by volume	0.3% v/v (245° C / 474° F)
Flammability limits in are, upper % by volume	Not available
Vapor pressure	0.01 mmHg (20° C) or 1.20 mmHg (200° C) (25/25° C) 0.982
Vapor density	16 (Air = 1)
Relative density	Not available
Solubility (H2O)	Practically insoluble (<0.01 g/l) at 20° C
Octanol/H2O coeff	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	62cP (25° C)
Specific Gravity	Not available

Sectoin 10: Stability and reactivity

Chemical stability	Stable under normal conditions of storage and handling. Polymerization will not occur.
Possibility of hazardous reactions	Not available
Conditions to avoid	Not available
Materials to avoid	Strong oxidants, acid, and alkalis.
Hazardous Decomposition products	When heated to decomposition it emits acrid smoke and fumes.

Section 11: Toxicological Information

Acute toxicity	LD ₅₀ (oral, rats): 25000mg / Kg LD ₅₀ (dermic, rabbit): 25000mg / Kg May cause nausea, abdominal colic, and diarrhea. May cause throat and nose irritation and difficulty breathing. May cause CNS depression.
Skin corrosion / irritation	May cause skin irritation with redness and pain, burning sensation
Serious eye damage / irritation	May cause eye irritation, with redness, pain, burning sensation, lacrimation, photophobia, conjunctivitis, edema, and keratitis.
Carcinogenicity	A3: Confirmed animal carcinogen with unknown relevance to humans (ACGIH, 2009) B2: Probably human carcinogen (USEPA, 2002) Group 3: The agent is not classifiable as to its carcinogenicity to humans (IARC)
Reproductive toxicity	May damage fertility May damage the unborn child Animal tests show that this substance possibly causes toxicity to human reproduction or development

Section 12: Ecological Information

Eco toxicity	May cause harmful effects to aquatic life
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MAGNAKRON

Mobility
Persistence / degradability
Bioaccumulation potential

LC₅₀ (Daphnia sp.) 48h = 11 mg/L
LC₅₀ (Salmo gairdneri), 96h = 100 mg/L
Immobile in soil
It is expected that this product presents rapid degradability.
It is expected bioaccumulation in aquatic organisms.
BCF: 115-851
NOEC < 1.0 mg/mL

Section 13: Disposal Considerations

Disposal instructions	Prior to implementing land disposal of waste residue (including waste sludge), consult local legislation for adequate disposal methods. Empty containers can retain product residues and should be disposed of in accordance with the provisions proposed for the product.
Contaminated packaging	Not available

Section 14: Transport Information

Land	UN – “United Nations” Recommendations on the TRANSPORT OF DANGEROUS GOODS. Model regulations, 15th Edition, 2007.
Sea	IMO – “International Maritime Organization” International Maritime Dangerous Goods Code (IMDG Code) – Incorporating Amendment 34-08; 2008 Edition.
Air	IATA – “International Air Transport Association” Dangerous Goods Regulation (DGR) – 51st Edition, 2010
UN classification number	Not regulated

Section 15: Regulatory Information

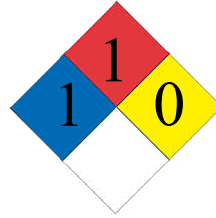
US federal regulations	REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of December 18, 2006
CERCLA (Superfund) reportable quantity	Not available
Superfund Amendments and Reauthorization Act of 1986 (SARA)	
Hazard categories	Not available
Section 302 extremely hazardous substances	Not available
Section 311 hazardous chemical	Not available

Section 16: Other Information

HMIS® ratings	Not available
NFPA ratings	Health Hazard: 1 Fire Hazard: 1 Reactivity: 0



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Issue date

8/28/2014