

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2006

Reviewed on 07/14/2006

1 Identification of substance

· **Product details**

· **Trade name:** DELTA TONE 9000

· **Article number:** 130572

· **Application of the substance / the preparation** Coating material

· **Manufacturer/Supplier:**

Dörken MKS- Systeme GmbH & Co. KG
Wetterstrasse 58

58313 Herdecke

Tel.:
(0049) 02330 / 63 -0

Fax.:
(0049) 02330 / 63 -355

E-Mail: Psicherheit@Doerken.de

· **Information department:** CHEMTREC®

· **Emergency information:** 1-800-424-9300



2 Composition/Data on components

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

7440-66-6	zinc powder -zinc dust (pyrophoric)	40-50%
5593-70-4	Titantetrabutanolat	10-20%
104-76-7	2-ethylhexan-1-ol	5 - 10%
1070-10-6	Titantetrakis(2-Ethylhexanolat)	1 - 5%
9022-96-2	Poly- Titantetrabutanolat	1 - 5%
64742-48-9	Naphtha (petroleum), hydrotreated heavy	1 - 5%
	Solvent naphtha (petroleum), heavy arom.	1 - 5%
2768-02-7	Trimethoxyvinylsilan	1 - 5%
7429-90-5	aluminium powder (pyrophoric)	1 - 5%
64742-94-5	Solvent naphtha (petroleum), heavy arom.	1 - 5%
64742-47-8	Distillates (petroleum), hydrotreated light	1 - 5%
64742-95-6	Solvent naphtha (petroleum), light arom.	1 - 5%
64742-88-7	Aliph./Aromat. Kohlenwasserstoffe	< 1%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· **Hazard description:**

Irritant
Dangerous for the environment

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· **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Flammable.

Irritating to skin.

Risk of serious damage to eyes.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

· **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

HEALTH	2
FIRE	3
REACTIVITY	0

Health = *2

Fire = 3

Reactivity = 0

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.

5 Fire fighting measures

- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water
- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

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7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Use only receptacles specifically permitted for this substance/product.
- **Information about storage in one common storage facility:**
Do not store together with oxidizing and acidic materials.
Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**

64742-47-8 Distillates (petroleum), hydrotreated light

TLV 200 mg/m³

As total hydrocarbon vapor; Skin; (P)

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**

Protective gloves

Solvent resistant gloves

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Protective work clothing* **9 Physical and chemical properties**· **General Information**

Form:	Fluid
Color:	Silver-colored
Odor:	Solvent-like

· **Change in condition****Melting point/Melting range:** Undetermined.**Boiling point/Boiling range:** Undetermined.· **Flash point:** > 23°C (> 73°F) (DIN 51758)· **Ignition temperature:** 250°C (482°F) (DIN 51794)· **Auto igniting:** Product is not selfigniting.· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.· **Explosion limits:****Lower:** 0.8 Vol % (Liter. Wert)**Upper:** 8.5 Vol % (Liter. Wert)· **Vapor pressure at 20°C (68°F):** 0.4 hPa (0 mm Hg) (Liter. Wert)· **Density at 20°C (68°F):** 1.514 g/cm³ (DIN 53217)· **Solubility in / Miscibility with****Water:** Hydrolized.· **Viscosity:****Kinematic at 20°C (68°F):** 30 s (DIN 53211/4)· **Solvent content:****Organic solvents:** 19.8 %**Water:** 0.0 %· **Solids content:** 58.4 %* **10 Stability and reactivity**· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Materials to be avoided:** Water· **Dangerous reactions** Develops toxic gases / fumes.

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· *Dangerous products of decomposition: Flammable gases/vapors*

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
Irritant
The product shows the following dangers according to internally approved calculation methods for preparations:

12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Harmful to aquatic organisms
Water hazard class 2 (Self-assessment): hazardous for water
Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- **Product:**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**
Material that is dried under ambient air conditions - especially dusty material (e.g. residual dust from spray chambers), contains residual solvents and metal dust.
It is therefore combustible with a possible danger of dust explosion.
Precautionary measures until disposal:
Store only in suitable containers in a cool, dry place.
Prevent direct sunlight.
Do not mix with water, alkaline and/or acidic substances as this could produce highly flammable gases.
Also keep well away from substances having a oxidising effect.
Do not use vacuum cleaners when cleaning.
Disposal must be made according to official regulations.

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14 Transport information**· DOT regulations:**

- Hazard class: 3
- Identification number: UN1263
- Packing group: III
- Proper shipping name (technical name): PAINT
- Label: 3

· Land transport ADR/RID (cross-border):

- ADR/RID class: 3 Flammable liquids
- Danger code (Kemler): 30
- UN-Number: 1263
- Packaging group: III
- Description of goods: 1263 PAINT, special provision 640E

· Maritime transport IMDG:

- IMDG Class: 3
- UN Number: 1263
- Label: 3
- Packaging group: III
- EMS Number: F-E,S-E
- Marine pollutant: No
- Proper shipping name: PAINT

· Air transport ICAO-TI and IATA-DGR:

- ICAO/IATA Class: 3
- UN/ID Number: 1263
- Label: 3
- Packaging group: III
- Proper shipping name: PAINT



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15 Regulations

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

1330-20-7 xylene (mix)

71-36-3 butanol

· TSCA (Toxic Substances Control Act):

5593-70-4 Titantetrabutanolat

104-76-7 2-ethylhexan-1-ol

1070-10-6 Titantetrakis(2-Ethylhexanolat)

64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

Solvent naphtha (petroleum), heavy arom.

2768-02-7 Trimethoxyvinylsilan

9022-96-2 Poly- Titantetrabutanolat

7429-90-5 aluminium powder (pyrophoric)

64742-94-5 Solvent naphtha (petroleum), heavy arom.

64742-47-8 Distillates (petroleum), hydrotreated light

64742-95-6 Solvent naphtha (petroleum), light arom.

Kieselsäuren, amorphe

64742-88-7 Aliph./Aromat. Kohlenwasserstoffe

9004-57-3 Ethylcellulose

1330-20-7 xylene (mix)

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

1330-20-7 xylene (mix) D

71-36-3 butanol D

· IARC (International Agency for Research on Cancer)

Kieselsäuren, amorphe 3

1330-20-7 xylene (mix) 3

· NTP (National Toxicology Program)

None of the ingredients is listed.

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· TLV (Threshold Limit Value established by ACGIH)		
1330-20-7	xylene (mix)	A4
· MAK (German Maximum Workplace Concentration)		
None of the ingredients is listed.		
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**

Irritant
Dangerous for the environment

· **Risk phrases:**

Flammable.
Irritating to skin.
Risk of serious damage to eyes.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

· **Safety phrases:**

Do not breathe fumes / aerosol
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable gloves and eye/face protection.
In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
Use appropriate container to avoid environmental contamination.
This material and its container must be disposed of as hazardous waste.

· **National regulations:**· **Technical instructions (air):**

Class	Share in %
II	1-5
III	35-40

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Abt.ASU / Produktsicherheit
- **Contact:** Abt. ASU / Tel. 02330 - 63-341
- * **Data compared to the previous version altered.**

