

Product

3D TRASAR® 3DT184

SECTION 1.	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
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1.1 Product identifier:
Type of substance**3D TRASAR® 3DT184**
CLP Mixture**1.2 Relevant identified uses of the substance or mixture and uses advised against:**Use of the : CORROSION INHIBITOR
Substance/Mixture**1.3 Details of the supplier of the safety data sheet:****COMPANY IDENTIFICATION**NALCO EUROPE B.V.
Postbus 627
2300 AP Leiden, The Netherlands
TEL: 0031 71 5241100**LOCAL COMPANY IDENTIFICATION**Nalco Ltd.
P.O. BOX 11, WINNINGTON AVENUE
NORTHWICH, CHESHIRE, U.K. CW8 4DX
TEL: +44 (0)1606 74488For additional copies of an MSDS visit www.nalco.com and request access.
For Product Safety information please contact: EUProductSafety@nalco.com**1.4 Emergency telephone number:** +32-(0)3-575-5555 Trans-EuropeanDate of Compilation/Revision:: 02.10.2012
Version Number: 1.0

SECTION 2.	HAZARDS IDENTIFICATION
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2.1 Classification of the substance or mixture:**Classification according to Regulation (EC) No 1272/2008**Skin corrosion/irritation - Category 1B H314
Serious eye damage/eye irritation - Category 1 H318**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

This product is classified as dangerous in accordance with the Substance Directive 67/548/EEC.

C, CORROSIVE R34

Refer to Section 16 for full details of the risk phrases, hazard statements and Notas.

2.2 Label elements:**Labelling according to Regulation (EC) No 1272/2008**

Contains: Phosphoric Acid

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Hazard pictograms:



Signal Word: Danger

Hazard Statements:

H314 Causes severe skin burns and eye damage.

Precautionary Statements

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

2.3 Other hazards:

None known

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture:

The details below include all impurities and by-products that contribute to the product classification or that have an occupational exposure limit.

Hazardous Substance(s)	% (w/w)	Classification according to Regulation (EC) No 1272/2008	Classification according to 67/548/EEC
Phosphoric Acid Index-No.: 015-011-00-6 EC-No.: 231-633-2 CAS-No.: 7664-38-2 REACH No.: 01-2119485924-24	30.0 - 60.0	Skin corrosion/irritation 1B : H314	C R34

Refer to Section 16 for full details of the risk phrases, hazard statements and Notas.

SECTION 4. FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

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In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency

INHALATION

Remove to fresh air, treat symptomatically. Get immediate medical attention.

SKIN CONTACT

Get immediate medical attention. Remove contaminated clothing. Wash clothing before reuse. Immediately flush with plenty of water for at least 15 minutes. For a large splash, flood body under a shower. **PROMPT ACTION IS ESSENTIAL IN CASE OF CONTACT.**

EYE CONTACT

Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention. **PROMPT ACTION IS ESSENTIAL IN CASE OF CONTACT.**

INGESTION

Seek medical advice immediately, showing the label and/or SDS. If conscious, washout mouth and give water to drink. If unconscious, do not give anything by mouth, place in the recovery position, check breathing and pulse. If necessary give artificial respiration. Do not induce vomiting without medical advice.

PROTECTION FOR FIRST AID PERSONNEL

Wear adequate personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed:

Causes severe skin burns and eye damage.

4.3 Indication of immediate medical attention and special treatment needed:

Probable mucosal damage may contraindicate the use of gastric lavage. Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

SECTION 5. FIRE-FIGHTING MEASURES**5.1 Extinguishing media:****SUITABLE EXTINGUISHING MEDIA**

Not expected to burn. Use extinguishing media appropriate for surrounding fire.

5.2 Special hazards arising from the substance or mixture:

Not flammable or combustible. May evolve oxides of phosphorus (PO_x) under fire conditions.

In the event of a spill, prevent material and fire water from entering sewers or waterways.

5.3 Advice for firefighters:

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

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3D TRASAR® 3DT184**SECTION 6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures:****ADVICE FOR NON-EMERGENCY PERSONNEL**

This material may be hazardous by contact, do not attempt to clean up the spill. Call trained emergency responders immediately. Clean up only to be done by Emergency responders/personnel. Restrict access to area as appropriate until clean-up operations are complete.

Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection).

ADVICE FOR EMERGENCY RESPONDERS

Restrict access to area as appropriate until clean-up operations are complete. Ensure adequate ventilation. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Ensure clean-up is conducted by trained personnel only. Notify appropriate government, occupational health and safety and environmental authorities. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

6.2 Environmental precautions:

In the event of a spill, prevent material from entering sewers or waterways. Do not allow material to contaminate ground water system. Prevent product from entering drains. If drains, streams, soil or sewers become contaminated, notify local authority.

6.3 Methods and materials for containment and cleaning up:

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. **LARGE SPILLS:** Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Clean contaminated surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

6.4 Reference to other sections:

Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

SECTION 7. HANDLING AND STORAGE**7.1 Precautions for safe handling:****HANDLING**

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Do not breathe vapors/gases/dust. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labeled. Prevent contact with skin, eyes and clothing. Use with adequate ventilation. Do not breathe vapors/gases/dust. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labeled. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection).

Refer to section 6.2 for Environmental Precautions

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HYGIENE RECOMMENDATIONS

Use good work and personal hygiene practices to avoid exposure. Keep an eye wash fountain available. Keep a safety shower available. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke. Eye wash station and safety shower are necessary. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities:

STORAGE CONDITIONS

Storage temperature range 0-50°C. Store in suitable labeled containers. Store the containers tightly closed. Store separately from bases.

SUITABLE CONSTRUCTION MATERIAL

Shipping and long term storage compatibility with construction materials can vary; we therefore recommend that compatibility is tested prior to use.

7.3 Specific end uses:

Specific use(s) :
CORROSION INHIBITOR

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

OCCUPATIONAL EXPOSURE LIMITS

Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below.

Source	Substance(s)	Category:	ppm	mg/m3
United Kingdom	Phosphoric Acid	TWA		1
		STEL		2

* A skin notation refers to the potential significant contribution to overall exposure by the cutaneous route, including mucous membranes and the eyes.

MONITORING MEASURES

A small volume of air is drawn through an absorbant or barrier to trap the substance(s) which can then be desorbed or removed and analyzed as referenced below:

Substance(s)	Method	Analysis	Absorbant
Phosphoric Acid	US NIOSH: 7903	Ion chromatography	Silica gel

DNEL

Components:

End Use:	Exposure routes:	Potential health effects:	Value:
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Phosphoric Acid

Workers	Inhalation	long-term - local	2.92 mg/m3
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8.2 Exposure controls:

ENGINEERING MEASURES:

General ventilation is recommended. The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces.

PERSONAL PROTECTIVE EQUIPMENT

GENERAL ADVICE

The use and choice of personal protection equipment is related to the hazard of the product, the workplace and the way the product is handled. In general, we recommend as a minimum precaution that safety glasses with side-shields and workclothes protecting arms, legs and body be used. In addition any person visiting an area where this product is handled should at least wear safety glasses with side-shields.

EYE/FACE PROTECTION

Wear a face shield with chemical splash goggles. The applicable European standard can be found in EN 166.

SKIN PROTECTION

When handling this product, the use of chemical gauntlets is recommended. The choice of work glove depends on work conditions and what chemicals are handled, but we have positive experience under light handling conditions using gloves made from PVC. Gloves should be replaced immediately if signs of degradation are observed. Breakthrough time not determined as preparation, consult PPE manufacturers. The applicable European standard can be found in EN 374.

When handling this product, the use of a chemical resistant suit and rubber boots is recommended. A full slicker suit is recommended if gross exposure is possible. The applicable European standard can be found in EN ISO 20345.

RESPIRATORY PROTECTION

Where concentrations in air may exceed the limits given in this section, the use of a half face filter mask or air supplied breathing apparatus is recommended. A suitable filter material depends on the amount and type of chemicals being handled. Consider the use of filter type: E-P. The applicable European standard can be found in EN 140, EN 137, EN 143 and EN 14387. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: These physical properties are typical values for this product and are subject to change.

9.1 Information on basic physical and chemical properties:

PHYSICAL STATE	Liquid
APPEARANCE	Clear Amber Brown
Odour	None
Odour Threshold	No data available.
pH (100 %)	1.0
FREEZING POINT	-22.5 °C
BOILING POINT	100 °C
FLASH POINT	> 200 F / > 93.3 °C

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9.1 Information on basic physical and chemical properties:

EVAPORATION RATE	No data available.
FLAMMABILITY (solid, gas)	No data available.
LOWER EXPLOSION LIMIT	No data available.
UPPER EXPLOSION LIMIT	No data available.
VAPOR PRESSURE	No data available.
VAPOR DENSITY	No data available.
Relative density	1.24 (15.6 °C)
DENSITY	No data available.
SOLUBILITY IN WATER	Complete
OCTANOL/WATER COEFFICIENT (log Kow)	No data available.
AUTOIGNITION TEMPERATURE	No data available.
DECOMPOSITION TEMPERATURE	No data available.
VISCOSITY	3 cps (25 °C)
EXPLOSIVE PROPERTIES	Not applicable
OXIDIZING PROPERTIES	Not applicable

9.2 Other information:

Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

Contact with strong alkalies (e.g. ammonia and its solutions, carbonates, sodium hydroxide (caustic), potassium hydroxide, calcium hydroxide (lime), cyanide, sulfide, hypochlorites, chlorites) may generate heat, splattering or boiling and toxic vapors.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

Hazardous polymerization will not occur.

10.4 Conditions to avoid:

Extremes of temperature

10.5 Incompatible materials:

Metals Gives off hydrogen by reaction with metals. Bases Contact with strong alkalies (e.g. ammonia and its solutions, carbonates, sodium hydroxide (caustic), potassium hydroxide, calcium hydroxide (lime), cyanide, sulfide, hypochlorites, chlorites) may generate heat, splattering or boiling and toxic vapors.

10.6 Hazardous decomposition products:

Under fire conditions: Oxides of phosphorus

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SECTION 11. TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects:
Product:

Acute oral toxicity	: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	: Based on available data, the classification criteria are not met.
Acute dermal toxicity	: Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	: Causes severe skin burns and eye damage.
Respiratory or skin sensitization	: Based on available data, the classification criteria are not met.
Genotoxicity	
Assessment	: Contains no ingredient listed as a mutagen
Carcinogenicity	: Based on available data, the classification criteria are not met. None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).
Reproductive toxicity	: Based on available data, the classification criteria are not met. Assessment: No toxicity to reproduction
STOT - single exposure	: Remarks: Based on available data, the classification criteria are not met.
STOT - repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration toxicity	: No aspiration toxicity classification

Components:
Phosphoric Acid

Acute oral toxicity	: LD50: approximately 2,600 mg/kg, Rat, OECD 423, GLP: No
Acute inhalation toxicity	: LC50: 5.337 mg/l, 1 h, Rabbit, OECD 403, Test substance: Aerosol, Read-across (Analogy)
Skin corrosion/irritation	: Rabbit, Result: Corrosive, EPA 16 CFR 1500.41, 24 h
Genotoxicity	
Genotoxicity in vitro	: Ames test, Result: negative, OECD 471 : In vitro gene mutation study in mammalian cells, Result: negative, OECD 476 : Chromosome aberration test in vitro, Result: negative, OECD

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Assessment

: In vitro tests did not show mutagenic effects

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity:

The following results are for the product and a similar product.

Product:

- | | |
|---|---|
| <p>Toxicity to fish</p> | <p>: LC50: 3,660 mg/l, 96 hrs, Fathead Minnow, Test substance: Similar Product</p> <p>: LC50: > 5,000 mg/l, 96 hrs, Inland Silverside, Test substance: Product</p> <p>: NOEC: 5,000 mg/l, 96 hrs, Inland Silverside, Test substance: Product</p> |
| <p>Toxicity to daphnia and other aquatic invertebrates.</p> | <p>: LC50: 2,237 mg/l, 96 hrs, Mysid Shrimp (Mysidopsis bahia), Test substance: Product</p> <p>: LC50: 3,536 mg/l, 48 hrs, Daphnia magna, Test substance: Product</p> <p>: NOEC: 1,250 mg/l, 96 hrs, Mysid Shrimp (Mysidopsis bahia), Test substance: Product</p> <p>: NOEC: 2,500 mg/l, 48 hrs, Daphnia magna, Test substance: Product</p> |
| <p>Toxicity to fish (Chronic toxicity)</p> | <p>: EC25 / IC25: 1,972 mg/l, 7 Days, Fathead Minnow, Test substance: Similar Product</p> <p>: NOEC: 1,250 mg/l, 7 Days, Fathead Minnow, Test substance: Similar Product</p> |

Ecotoxicology Assessment

- | | |
|--------------------------|---|
| Acute aquatic toxicity | : Not expected to be harmful to aquatic organisms. |
| Chronic aquatic toxicity | : Not expected to demonstrate chronic toxicity to aquatic organisms |

Components:

Phosphoric Acid

Ecotoxicology Assessment

- | | |
|------------------------|--|
| Acute aquatic toxicity | : Harmful effects on aquatic organisms due to pH shift |
|------------------------|--|

12.2 Persistence and degradability:

Product:

- | | |
|------------------|---|
| Biodegradability | : Greater than 95% of this product consists of inorganic substances for which a biodegradation value is not applicable. |
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Components:

Phosphoric Acid

- | | |
|------------------|------------------------------------|
| Biodegradability | : study scientifically unjustified |
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12.3 Bioaccumulative potential:

Product:

Bioaccumulation : This preparation or material is not expected to bioaccumulate.

12.4 Mobility in soil:

Product:

Environmental fate and pathways : This substance is water soluble and is expected to remain primarily in water.

12.5 Results of PBT and vPvB assessment:

Product:

Assessment : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects:

Product:

Biochemical Oxygen Demand (BOD) : 2,460 mg/l, 5 d, Test substance: Product
Chemical Oxygen Demand (COD) : 3,000 mg/l, Test substance: Product
Additional ecological information : No adverse effects expected.

SECTION 13.	DISPOSAL CONSIDERATIONS
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If this preparation becomes a waste, the final user must define and assign the appropriate European Waste Catalogue code. Use only authorized contractors. Ensure compliance with EC, national and local regulations.

13.1 Waste treatment methods:

Contact an approved waste hauler for disposal of contaminated recovered material. Any chemical waste is a potential environmental pollutant and is NOT suitable for disposal via ground, municipal sewers, drains, natural streams or rivers. Dispose of wastes in an approved incinerator or waste treatment/disposal site, in accordance with all applicable regulations. Do not dispose of wastes in local sewer or with normal garbage. Empty drums should be taken for recycling, recovery, or disposal through a suitably qualified or licensed contractor.

EUROPE WASTE CODE:

16 03 03* - OFF SPECIFICATION BATCHES AND UNUSED PRODUCTS - Inorganic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code.

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SECTION 14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

LAND TRANSPORT

14.1 UN number:	UN 1805
14.2 UN proper shipping name:	PHOSPHORIC ACID SOLUTION (Phosphoric Acid)
14.3 Transport hazard class(es):	8
14.4 Packing group:	III
14.5 Environmental hazards:	No
14.6 Special precautions for user:	not applicable

AIR TRANSPORT (ICAO/IATA)

14.1 UN number:	UN 1805
14.2 UN proper shipping name:	PHOSPHORIC ACID SOLUTION (Phosphoric Acid)
14.3 Transport hazard class(es):	8
14.4 Packing group:	III
14.5 Environmental hazards:	No
14.6 Special precautions for user:	not applicable

MARINE TRANSPORT (IMDG/IMO)

14.1 UN number:	UN 1805
14.2 UN proper shipping name:	PHOSPHORIC ACID SOLUTION (Phosphoric Acid)
14.3 Transport hazard class(es):	8
14.4 Packing group:	III
14.5 Environmental hazards:	No
14.6 Special precautions for user:	not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	not applicable

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

INTERNATIONAL CHEMICAL CONTROL LAWS

EUROPE

Safety Data Sheet according to Regulation (EC) No 1907/2006.

Nalco is committed to and fully supports the Registration, Evaluation, Authorization and restriction of CHemicals (REACH) regulation. It is our intention to pre-register all chemical substances that we manufacture or import into European Union and to work with our suppliers to ensure a smooth transition to this new regulatory environment. Should you require any further information on Nalco's REACH programme please contact us at reach@nalco.com or visit our website.

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3D TRASAR® 3DT184**CANADA**

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

UNITED STATES

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

NATIONAL REGULATIONS GERMANY

WGK: 1 (Annex 4)

NATIONAL REGULATIONS HOLLAND**15.2 Chemical Safety Assessment:**

A Chemical Safety Assessment has been carried out for some of the substances in this mixture.

SECTION 16.**OTHER INFORMATION****LIST OF RELEVANT R-PHRASES, NOTAS AND HAZARD STATEMENTS IN SECTION 2.1 AND 3**

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

R34 - Causes burns.

REVISED INFORMATION: section(s): 12

This product Safety Data Sheet provides health, safety, and regulatory information. The information contained in this Safety Data Sheet is based on data available to us at the date of issue, and is provided in good faith, and believed to be accurate and reliable at the date of issue, however, no warranty, express or implied is provided, and Nalco disclaims all liability for reliance on such information. The product is to be used in applications consistent with Nalco's product literature. For any other uses, exposures should be evaluated so that the appropriate handling practices and training programs can be established to ensure safe working conditions and operations. It is the buyer's/user's responsibility to satisfy itself that the product is suitable for the intended use, and to ensure that its activities comply with all federal, state, provincial, or local laws and regulations. Regulatory requirements are subject to change and may differ between European Member States and Nations. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. Please consult your local sales representative for any further information.

REFERENCES

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Ariel Insight™ (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

The possible key literature references and data sources which may have been used in conjunction with the consideration of expert judgment to compile this Safety Data Sheet: European regulations/directives (including (EC) No. 1907/2006, (EC) No. 1272/2008, 67/548/EEC, 1999/45/EC), supplier data, inter-net, ESIS, IUCLID, ERICards, Non European official regulatory data and other data sources.

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Prepared By: SHE Department

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

