

Safety Data Sheet

Title: **D1 SDS**

Document #: SDS-0006 / Revision. A

Status: Current; Effective Date: 03/30/2020

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SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name D1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Research-Use Only, Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Manufacturer Phase Scientific International Limited
32/F, Gravity, 29 Hing Yip Street,
Hong Kong
Phone: 852-3892-7200

1.4 Emergency telephone number

Emergency Number +1 (657) 233-5880 [US]
+852 3892 7200 [Hong Kong]

Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

H315 Skin irritation (Category 2)
H319 Eye irritation (Category 2)
H400 Acute aquatic toxicity (Category 1)

2.2 Label elements

Pictogram



Signal word Warning

Hazard statement(s)

H315 Causes skin irritation
H319 Causes serious eye irritation
H400 Very toxic to aquatic life

Precautionary statement(s)

P273 Avoid release to the environment
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing.

Supplemental Hazard Statements None

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2.3 Other hazards

This substance contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Iodine ionic compound	Skin Irrit 2; eye irrit 2; Aquatic acute 1; H315, H319, H400 M-Factor – Aquatic Acute: 1	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact

Wash off with soap and plenty of water. Consult a physician.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

Section 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Hydrogen iodide, Sodium oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see Section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see Section 13.

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see Section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Air, light and moisture sensitive.

Storage class (TRGS 510): Non-combustible solids.

7.3 Specific end use(s)

Apart from the uses mentioned in Section 1.2 no other specific uses are stipulated.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
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8.1 Control parameters**8.2 Exposure controls****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment**Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEKP2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	white crystalline
Odour	No data available
pH at 20°C	6.0 - 9.0 at 50 g/l at 20 °C
Melting point	661 °C - lit.
Boiling point	1,304 °C at 1013 hPa
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	3.670 g/cm ³
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other safety information

No data available

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Exposure to light may affect product quality. Air sensitive.

10.5 Incompatible materials

Oxidizing agents, Strong acids, Bromine trifluoride

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10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen iodide, Sodium oxides.

Other decomposition products - No data available.

In the event of fire: see Section 5.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicology effects

Acute toxicity	LD ₅₀ Oral - Rat - 4,340 mg/kg (Iodide ionic compound)
Skin irritation/corrosion	Skin – Rabbit (Iodide ionic compound) Result: Skin irritation - 24 h
Serious eye damage/eye irritation	Eyes – Rabbit (Iodide ionic compound) Result: Moderate eye irritation - 24 h
Respiratory or skin sensitization	No data available
CMR effects	No data available
Carcinogenicity	

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available

Additional Information

RTECS: WB6475000

Prolonged exposure to iodides may produce iodise in sensitive individuals. headache and irritation of the mucous membrane. For severe cases the skin blue spots. Iodides are readily diffused across the placenta. Neonatal de been reported. Iodides have been known to cause drug-induced fevers, which, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Iodide ionic compound).

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

LC₅₀ - Oncorhynchus mykiss (rainbow trout) - 860 mg/l - 96 h (Iodide ionic compound)

Toxicity to daphnia and other aquatic invertebrates

EC₅₀ - Daphnia magna (Water flea) - 0.17 mg/l - 48 h (Iodide ionic compound)

12.2 Persistence and degradability

No data available

12.3 Bio-accumulative potential

Bioaccumulation

Chasmichthys gulosus - 20 d
- 60 µg/l (Iodide ionic compound)
Bioconcentration factor (BCF): 344

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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Very toxic to aquatic life.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

Section 14: TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 3077, IMDG: 3077, IATA: 3077

14.2 UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Iodide ionic compound)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Iodide ionic compound)

IATA: Environmentally hazardous substance, solid, n.o.s. (Iodide ionic compound)

14.3 Transport hazard class(es): ADR/RID: 9, IMDG: 9, IATA: 9

14.4 Packaging group: ADR/RID: III, IMDG: III, IATA: III

14.5 Environmental hazards: ADR/RID: yes, IMDG Marine pollutant: no, IATA: yes

14.6 Special precautions for user

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packaging and combination packaging containing inner packaging with Dangerous Goods > 5L for liquids or > 5kg for solids.

Section 15: REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

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Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

Further information

This information is based on our present knowledge. The information given is designed only as a guidance for safe handling and is not to be considered a warranty or quality specification. All materials and mixtures may present unknown hazards and should be used with caution.

DISCLAIMER: For R&D use only. Not for drug, household or other uses.