

Safety Data Sheet

Title: **Solution B2 SDS**

Document #: SDS-0019 / Revision. A

Status: Current; Effective Date: 11 MAY 2020

SAFETY DATA SHEET

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

1.1 Product identifier

Product Name Solution B2

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

Identified uses Laboratory chemical

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 9135 2570

1.4 Emergency telephone number

Emergency Number +1 (657) 296-6106 [US]
+852 9135 2570 [Hong Kong]

Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008	
Acute toxicity, Oral, H302	Category 4
Acute toxicity, Inhalation, H332	Category 4
Skin corrosion/irritation, H315	Category 2
Eye irritation, H319	Category 2
Serious eye damage/eye irritation, H318	Category 1
Chronic aquatic toxicity	Category 3

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Warning, Danger

Hazard statement(s)

H302 + H332	Harmful if swallowed or if inhaled
H315	Causes skin irritation
H319	Causes serious eye irritation
H318	Causes serious eye damage
H412	Harmful to aquatic life with long lasting effects

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Precautionary statement(s)

P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P280	Wear eye protection/face protection
P273	Avoid release to the environment
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P304+P340+P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/ attention.
P310	Immediately call a POISON CENTER or doctor/physician
Disposal	
P501	Dispose of contents/container to an approved waste disposal plant

2.3 Other hazards

This substance/mixture 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.

HMIS

Health	3
Flammability	0
Reactivity	0

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Single substance or mixture: Mixture

Component	Classification	Concentration
Denaturant	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, H302, H332, H315, H319	<=90%
Detergent		7-10%

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

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

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If inhaled

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

In case of skin contact

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

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing and consult a physician.

If swallowed

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

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.

H318 – causes serious eye damage, H412 – Harmful to aquatic life with long lasting effects

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

Carbon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

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. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent material from entering sewer or confined spaces, waterways, soil or public waters. Do not flush to sewer. Should not be released into the environment. Do not let product enter drains.

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6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

6.4 Reference to other sections

See section 8 for more information.

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Use personal protective equipment as required. No special handling advices are necessary. 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.
Hygroscopic

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

8.1 Control parameters

Components with workplace 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. Ensure adequate ventilation, especially in confined areas.

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 Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact

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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)

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 hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (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 material from entering sewer or confined spaces, waterways, soil or public waters. Do not flush to sewer. Should not be released into the environment. Prevent product from entering drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Colourless solution
Odour	Mixture has not been tested
pH	Mixture has not been tested
Melting point	Mixture has not been tested
Boiling point	Mixture has not been tested
Flash point	Mixture has not been tested
Evaporation rate	Mixture has not been tested
Flammability (solid, gas)	Mixture has not been tested
Upper/lower flammability or explosive limits	Mixture has not been tested
Vapour density	Mixture has not been tested
Vapour pressure	Mixture has not been tested

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Relative density	Mixture has not been tested
Water solubility	Mixture has not been tested
Partition coefficient (n-octanol/water)	Mixture has not been tested
Auto-ignition temperature	Mixture has not been tested
Decomposition temperature	Mixture has not been tested
Viscosity	Mixture has not been tested
Explosive properties	Mixture has not been tested
Oxidizing properties	Mixture has not been tested

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity	No data available
10.2 Possibility of hazardous reactions	No data available
10.3 Chemical stability	Stable under recommended storage condition
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	Strong oxidizing agents
10.6 Hazardous decomposition products	
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas	
Other decomposition products	No data available
In the event of fire: see section 5	

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute toxicity	Mixture has not been tested
Skin irritation/corrosion	Mixture has not been tested
Serious eye damage/eye irritation	Mixture has not been tested
Respiratory or skin sensitization	Mixture has not been tested
Carcinogenicity	Mixture has not been tested
Reproductive toxicity	Mixture has not been tested
STOT-single exposure	Mixture has not been tested
STOT-repeated exposure	Mixture has not been tested
Germ cell mutagenicity	Mixture has not been tested
Aspiration hazard	Mixture has not been tested

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Mixture has not been tested
12.2 Persistence and degradability	Mixture has not been tested
12.3 Bio-accumulative potential	Mixture has not been tested
12.4 Mobility in soil	Mixture has not been tested
12.5 Results of PBT and vPvB assessment	Mixture has not been tested
12.6 Other adverse effects	Mixture has not been tested

Section 13: DISPOSAL CONSIDERATIONS

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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 chemical incinerator equipped with an afterburner and scrubber. Do not disposed of waste into sewer. Do not empty into drains.

Contaminated packaging

Dispose of as unused product.

Section 14: TRANSPORT INFORMATION

14.1 UN number	-
14.2 UN proper shipping name	
ADR/RID: Not dangerous goods	
IMDG: Not dangerous goods	
IATA: Not dangerous goods	
14.3 Transport hazard class(es)	-
14.4 Packaging group	-
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	Not applicable

Section 15: REGULATORY INFORMATION

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

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

US TSCA

Listed

WHMIS Hazard Class

D2B – Toxic materials

15.2 Chemical safety assessment

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

Section 16: OTHER INFORMATION

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: Not for drug, household or other uses.