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ConnectingChemistry

BRENNTAG

Attachment for HITOX STD SDS

Importer/Distributor:

Brenntag New Zealand Ltd.
75 France Street, Eden Terrace, Auckland, 1010

Telephone: 09 275 0745 (Business Hours)
0800 700 112 (24hr Emergency)
Facsimile: 09 275 0746

National Poisons Centre New Zealand: 0800 POISON (0800 764 766)

Hazardous Classification: Not classified as hazardous according to HSNO New Zealand criteria.

Dangerous Goods Classification: Not classified as a dangerous good for transport according to NZS 5433.

Exposure Standards:

	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	NOTICES
Iron oxide dust and fume (Fe2O3), as Fe		5 (w)			
Silica fume (Respirable dust)		2			
Titanium dioxide		10			

As listed in New Zealand 'Workplace Exposure Standards'.

Group Standard: Not applicable as non-hazardous.

NZIoC: All components listed or in compliance.

This attachment must be read in conjunction with the attached SDS.

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SAFETY DATA SHEET
HITOX® STD, ULX, F, ULR, and SV

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name	HITOX® STD, ULX, F, ULR, SV
Grades	STD, ULX, F, ULR, AND SV

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

Identified uses	Pigment, used in paints and plastics.
Uses Advised Against	Any use other than those identified.

1.3. Details of the supplier of the safety data sheet

Supplier:	TOR Minerals (M) Sdn. Bhd. (14387 – W) 4 ½ Miles, Jalan Lahat, 30200 Ipoh, Perak, Malaysia Tel: (605)-3223536 Fax: (605)-3222535

1.4. Emergency telephone number

TOR Minerals (M) Sdn. Bhd.	Phone: (605)-3223536

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Not classified.
Environment	Not classified.
Classification (67/548/EEC)	Not classified.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health:	Dust may irritate the eyes and respiratory system.
Environment:	The product is not expected to be hazardous to the environment.

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008

No pictogram required.

Precautionary Statements

P261	Avoid breathing dust.
P273	Avoid release to the environment.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
P501A	Dispose of contents/container in accordance with local authority requirements.

2.3. Other hazards

None.

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SECTION 3: COMPOSITION/INFORMATON INGREDIENTS

3.1. Mixtures

Rutile titanium dioxide		>94%
CAS-No.: 1317-80-2	EC No: 215-282-2	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Not classified.	Not classified.	

Amorphous silica		1.25%
CAS-No.: 7631-86-9	EC No: 231-545-4	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Not classified.	Not classified.	

Ferric oxide		1.9%
CAS-No.: 1309-37-1	EC No: 215-168-2	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Not classified.	Not classified.	

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly and give plenty of water to drink. Seek medical advice if necessary.

Skin Contact

Clean by mechanical dry removal. Subsequently rinse with water.

Eye Contact

Immediately flush with plenty of water or eyewash solution for up to 10 minutes. Contact physician if irritation persists.

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

None.

4.3. Indication of any immediate medical attention and special treatment needed

None

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media

The product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

None known.

Specific Hazards

Take precautionary measures against static discharges.

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5.3. Advice for firefighters

Protective equipment for firefighters

Wear self-contained breathing apparatus and full protective clothing. Keep all unnecessary people away. Fire water run-off must not be allowed to contaminate ground or enter drains, sewers, or water courses. Provide bunding against fire water run-off.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing (see Section 8). Avoid inhalation of dust.

6.2. Environmental precautions

No special environmental precautions required.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Dispose of absorbed material in accordance within local regulations.

6.4. Reference to other sections

For waste disposal, see section 13..

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advise on safe handling

Avoid inhalation of dust and contact with skin and eyes.

Advise on fire and explosion protection

Not applicable.

7.2. Conditions for safe storage, including any incompatibilities

Dry storage at moderate temperatures

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

See product information

8.1. Control parameters

Name	STD	TWA – 8 Hrs		STEL – 15 Min		Notes
Ferric oxide	WEL		5 mg/m^3		10 mg/m^3	As Fe
Amorphous silica	WEL		2.4 mg/m^3			
Rutile titanium dioxide	WEL		10 mg/m^3			

WEL = Workplace Exposure Limit

Ingredient Comments

WEL = Workplace Exposure Limits COSHH – see note section 16.

8.2. Exposure controls

Technical

Avoid dust formation.

Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

If ventilation is insufficient, suitable respiratory equipment must be provided.

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Hand protection
Wear suitable protective gloves conforming to EN 374.

Eye protection
Wear approved safety goggles.

Other Protection
Provide eyewash station and safety shower.

Hygiene measures
When using do not eat, drink, or smoke.

Environmental
No special exposure controls require

SECTION 9: PHYSICAL AND CHEMICAL PROTERTIES

9.1. Information on basic physical and chemical properties

Appearance	Powder, dust.
Colour	Beige.
Odour	Odourless
Solubility	Insoluble in water.
Initial Boiling Point and Boiling Range:	2500 – 3000°C.
Melting Point (°C)	1840°C.
Relative Density	4.1
Ph-Value, Diluted Solution	6.5 – 7.5 @ 10% sluirry in water.

9.2. Other information
None.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
None.

10.2. Chemical stability
Stable under normal conditions of storage and use. See section 7.

10.3. Possibility of hazardous reactions
Hazardous Polymerisation
Will not polymerise.

10.4. Conditions to avoid
Not known.

10.5. Incompatible materials
Materials to Avoid
None known.

10.6. Hazardous decomposition products
No hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information
Health effects of this preparation as supplied have not been fully determined. The information below should be regarded as precautionary.

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Inhalation
Dust may irritate respiratory system or lungs. Pre-existing respiratory conditions may be aggravated by inhalation of dust.

Ingestion
May cause discomfort if swallowed.

Skin contact
Powder may irritate skin. Not a skin sensitizer.

Eye contact
Particles in the eyes may cause irritation.

Carcinogenicity
In lifetime inhalation studies of rats, respirable size titanium dioxide (TiO_2) particles were shown to cause an increase in lung tumors at an exposure level that caused lung overload and inflammation. Tests with other animals indicate that rats respond more severely than other rodents. These tumors were found to only occur in overload conditions, were unique to the rat and were found to have little or no relevance to humans. In 2006, the IARC has characterized TiO2 as a possible carcinogen to humans (Group 2B) through inhalation (not ingestion). The NTP and OSHA have not characterized TiO2 as a carcinogen.

Occupational exposure to TiO2 based on epidemiology studies does not indicate an increased risk of cancer in humans.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity
Oral

Rat
No Toxicological effects found.

12.2. Persistence and degradability
Degradability
The product solely consists of inorganic compounds which are not biodegradable. The remaining substances of the product are expected to be not readily biodegradable.

12.3. Bioaccumulative potential
Bioaccumulative Potential
Bioaccumulative is unlikely to be significant because of the lower water solubility of this product.

12.4. Mobility in soil

Mobility
The product contains substances which are insoluble in water and which sediment in water systems.

12.5. Results of PBT and vPvB assessment
This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects
None.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSFORMATION INFORMATION

General
The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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14.1. UN number

Not applicable.

14.2 UN Proper shipping name

Not applicable.

14.3 Transport hazard class(es)

None

14.4. Packing group

Not applicable.

14.5. Environmental hazards

None.

14.6. Special precautions for user

See section 6 and 8

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No hazardous goods

SECTION 15: REGULATORY INFORMATION

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

EINECS (EU) Status	: On the inventory, or in compliance with the inventory
AICS (AU) Status	: On the inventory, or in compliance with the inventory
DSL (CA) Status	: On the inventory, or in compliance with the inventory
ENCS (JP) Status	: On the inventory, or in compliance with the inventory
KECI (KR) Status	: On the inventory, or in compliance with the inventory
PICCS (PH) Status	: On the inventory, or in compliance with the inventory
IECSC (CN) Status	: On the inventory, or in compliance with the inventory
ISHL (JP) Status	: On the inventory, or in compliance with the inventory
NZIOC Status	: On the inventory, or in compliance with the inventory
HSNO (NZ) Status	: On the inventory, or in compliance with the inventory
TSCA Status	: On the inventory, or in compliance with the inventory

15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

None.

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