according to GB/T 16483 and GB/T 17519



ARALDITE® DW 0131 WHITE

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1. PRODUCT AND COMPANY IDENTIFICATION

: ARALDITE® DW 0131 WHITE Product name

Manufacturer or supplier's details

Company : Huntsman Advanced Materials (Guangdong) Co., Ltd.

Address : Flying Geese Mountain Industrial Park, Shilou Town, Panyu,

Guangzhou, Guangdong 511447, P.R.C.

+86 20 39377000 Telephone Telefax +86 20 84865122

E-mail address : Global_Product_EHS_AdMat@huntsman.com

Emergency telephone number : EUROPE: +32 35 75 1234

France ORFILA: +33(0)145425959

ASIA: +65 6336-6011 China: +86 20 39377888 +86 532 83889090 India: + 91 22 42 87 5333 Australia: 1800 786 152

New Zealand: 0800 767 437 USA: +1/800/424.9300

Recommended use of the chemical and restrictions on use

Recommended use : Component used for the manufacture of electrical insulation

parts

Restrictions on use : For industrial use only.

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance paste Colour white Odour slight

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

GHS Classification

Skin corrosion/irritation : Category 2

Serious eye damage/eye

irritation

Category 2A

Skin sensitisation : Category 1

according to GB/T 16483 and GB/T 17519



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Short-term (acute) aquatic

hazard

: Category 2

Long-term (chronic) aquatic

hazard

: Category 2

GHS label elements

Hazard pictograms





Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

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

easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

P391 Collect spillage.

Storage: Not available Disposal:

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international

regulations.

Physical and chemical hazards

Not classified based on available information.

Health hazards

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

Environmental hazards

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

according to GB/T 16483 and GB/T 17519



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Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
2,2'-[(1-methylethylidene)bis(4,1-	1675-54-3	>= 50 - < 70
phenyleneoxymethylene)]bisoxirane		
titanium dioxide	13463-67-7	>= 30 - < 50

Both 25068-38-6 and 1675-54-3 can be used to describe the epoxy resin which is produced through the reaction of Bisphenol A and Epichlorhydrin

4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

Get medical attention if symptoms occur.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: None known.

Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

according to GB/T 16483 and GB/T 17519



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Unsuitable extinguishing

media

High volume water jet

Specific hazards during

firefighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

Carbon oxides

Halogenated compounds

Metal oxides

Specific extinguishing

methods

: Collect contaminated fire extinguishing water separately. This

must not be discharged into drains. Fire residues and

contaminated fire extinguishing water must be disposed of in

accordance with local regulations.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Avoidance of contact Strong acids

Strong bases

according to GB/T 16483 and GB/T 17519



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Strong oxidizing agents

Storage

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Keep in properly labelled containers.

Materials to avoid : For incompatible materials please refer to Section 10 of this

SDS.

Recommended storage

temperature

: 2 - 40 °C

Further information on

storage stability

Stable under normal conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
titanium dioxide	13463-67-7	PC-TWA	8 mg/m3	GBZ 2.1-
		(Total dust)		2007
		TWA	10 mg/m3	ACGIH
			(Titanium dioxide)	

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines

Filter type : Combined particulates and organic vapour type

Eye/face protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

according to GB/T 16483 and GB/T 17519



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Colour : white

Odour : slight

Odour Threshold : No data is available on the product itself.

pH : 5.5 - 8.5 (20 °C)

Concentration: 500 g/l

Freezing point : No data is available on the product itself.

Melting point : No data is available on the product itself.

Boiling point : $> 200 \, ^{\circ}\text{C}$

Flash point : 200 °C

Method: Pensky-Martens closed cup

210 °C

Method: Cleveland open cup

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

Flammability (liquids) : No data is available on the product itself.

Upper explosion limit / Upper

flammability limit

: No data is available on the product itself.

Lower explosion limit / Lower

flammability limit

: No data is available on the product itself.

Vapour pressure : 0.0001 hPa (20 °C)

Relative vapour density : No data is available on the product itself.

Relative density : 1.7 (25 °C)

Density : 1.7 g/cm3 (25 °C)

Solubility(ies)

Water solubility : insoluble (20 °C)

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Decomposition temperature : > 200 °C

according to GB/T 16483 and GB/T 17519



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Self-Accelerating

decomposition temperature

(SADT)

No data is available on the product itself.

Viscosity

Viscosity, dynamic : 60,000 - 160,000 mPa.s (25 °C)

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Particle size : No data is available on the product itself.

10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No hazards to be specially mentioned.

Conditions to avoid : None known.

Incompatible materials : Strong acids

Strong bases

Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide carbon monoxide

Halogenated compounds

11. TOXICOLOGICAL INFORMATION

Exposure routes : No data is available on the product itself.

Acute toxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:
Acute oral : LD50 (Rat, female): > 2,000 mg/kg
toxicityComponents Method: OECD Test Guideline 420

Assessment: The substance or mixture has no acute oral

toxicity

titanium dioxide:

Acute oral : LD50 (Rat, female): > 5,000 mg/kg toxicityComponents Method: OECD Test Guideline 425

Assessment: The substance or mixture has no acute oral

toxicity

Components:

titanium dioxide:

according to GB/T 16483 and GB/T 17519



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: LC50 (Rat, male and female): 3.43 - 5.09 mg/l Acute inhalation toxicity

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute

inhalation toxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

titanium dioxide:

Acute dermal toxicity : LD50 Dermal (Rabbit): > 10,000 mg/kg

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rabbit

Assessment: Mild skin irritant Method: OECD Test Guideline 404

Result: Irritating to skin.

titanium dioxide: Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404 Result: Normally reversible injuries

Serious eye damage/eye irritation

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rabbit

Result: Irritating to eyes. Assessment: Mild eye irritant Method: OECD Test Guideline 405

titanium dioxide: Species: Rabbit

Result: Normally reversible injuries Assessment: No eye irritation Method: OECD Test Guideline 405

according to GB/T 16483 and GB/T 17519



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Respiratory or skin sensitisation

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Exposure routes: Skin Species: Mouse

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 429 Result: Causes sensitisation.

titanium dioxide:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin Species: Mouse

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 429 Result: Does not cause skin sensitisation.

Exposure routes: Skin Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

Components:

titanium dioxide:

Assessment: No skin irritation, No eye irritation

Does not cause skin sensitisation., Does not cause respiratory

sensitisation.

Germ cell mutagenicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive

Concentration: 0 - 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive

titanium dioxide:

Genotoxicity in vitro : Test Type: Ames test

Concentration: 100 - 200 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Concentration: 31 - 500 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

according to GB/T 16483 and GB/T 17519



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Test Type: Chromosome aberration test in vitro

Concentration: 125 - 2500 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Genotoxicity in vivo : Cell type: Germ

Application Route: Oral

Method: OECD Test Guideline 478

Result: negative

Cell type: Somatic Application Route: Oral Dose: 0 - 5000 mg/kg Method: OPPTS 870.5395

Result: negative

titanium dioxide:

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse (males)
Application Route: Inhalation
Exposure time: 5 consecutive days
Dose: 0.8, 7.2, and 28.5 mg/m³
Method: OECD Test Guideline 474

Result: negative

Test Type: Micronucleus test Species: Rat (male and female)

Application Route: Oral Exposure time: once

Dose: 500, 1000, and 2000 mg/kg bw Method: OECD Test Guideline 474

Result: negative

Components:

titanium dioxide:

Germ cell mutagenicity-

Assessment

: Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Animal testing did not show any mutagenic

effects.

Germ cell mutagenicity-

Assessment

: No data available

Carcinogenicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rat, male and female

Application Route: Oral Exposure time: 24 month(s)

according to GB/T 16483 and GB/T 17519



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Dose: 15 mg/kg

Frequency of Treatment: 7 days/week Method: OECD Test Guideline 453

Result: negative

Species: Mouse, male Application Route: Dermal Exposure time: 24 month(s)

Dose: 0.1 mg/kg

Frequency of Treatment: 3 days/week Method: OECD Test Guideline 453

Result: negative

Species: Rat, female Application Route: Dermal Exposure time: 24 month(s)

Dose: 1 mg/kg

Frequency of Treatment: 5 days/week Method: OECD Test Guideline 453

Result: negative

titanium dioxide:

Species: Rat, male and female

Application Route: Oral Exposure time: 103 weeks Dose: 0, 25000, 50000 ppm

Frequency of Treatment: 7 days/week

NOAEL: > 50.000 ppm

Method: No information available.

Remarks: Titanium Dioxide: based on the results of chronic inhalation studies (with positive results only in a single species - rat), IARC has concluded that: "There is inadequate evidence in humans for the carcinogenicity of titanium dioxide." but that: "There is sufficient evidence in experimental animals for carcinogenicity of titanium dioxide". IARCs overall evaluation was that "titanium dioxide is possibly carcinogenic to humans (Group 2B)."

Huntsman has examined all of the available animal carcinogenicity and mechanistic data together with workplace epidemiology data for titanium dioxide and concludes that the weight of scientific evidence indicates that there is no causative link between titanium dioxide exposure and cancer risk in humans and that workplace exposures in compliance with applicable exposure standards will not result in lung cancer or chronic respiratory diseases in humans.

Components:

titanium dioxide: Carcinogenicity -

: Not classifiable as a human carcinogen.

Assessment

Reproductive toxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

Dose: >750 milligram per kilogram

according to GB/T 16483 and GB/T 17519



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General Toxicity - Parent: No-observed-effect level: 540

mg/kg body weight

General Toxicity F1: No-observed-effect level: 540 mg/kg

body weight

Symptoms: No adverse effects Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Effects on foetal : Species: Rabbit, female development : Application Route: Dermal

General Toxicity Maternal: No observed adverse effect level:

30 mg/kg body weight Method: Other guidelines Result: No teratogenic effects

Species: Rabbit, female Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

60 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat, female Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

180 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

titanium dioxide:

Species: Rat, male and female

Application Route: Oral

Dose: 100, 300, and 1000 mg/kg bw/ Duration of Single Treatment: 20 d Frequency of Treatment: 7 days/week

General Toxicity Maternal: No observed adverse effect level:

1,000 mg/kg body weight

Developmental Toxicity: No observed adverse effect level:

1,000 mg/kg body weight

Method: OECD Test Guideline 414

Result: No adverse effects

Components:

titanium dioxide:

Reproductive toxicity - : No evidence of adverse effects on sexual function and fertility,

Assessment or on development, based on animal experiments.

STOT - single exposure

No data available

according to GB/T 16483 and GB/T 17519



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STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rat, male and female

NOAEL: 50 mg/kg

Application Route: Ingestion Exposure time: 14 Weeks Number of exposures: 7 d Method: Subchronic toxicity

Species: Rat, male and female

NOEL: 10 mg/kg

Application Route: Skin contact Exposure time: 13 Weeks Number of exposures: 5 d Method: Subchronic toxicity

Species: Mouse, male NOAEL: 100 mg/kg

Application Route: Skin contact Exposure time: 13 Weeks Number of exposures: 3 d Method: Subchronic toxicity

titanium dioxide:

Species: Rat, male and female

NOEC: 3500 mg/m3

Application Route: Ingestion Test atmosphere: dust/mist Exposure time: 2 yr

Number of exposures: 5 d Method: Chronic toxicity

Species: Rat, male and female

NOEC: 10 - 50 mg/m3 Application Route: Inhalation

Exposure time: 2 yr

Number of exposures: 6 hours/day, 5 days/week

Method: Chronic toxicity

Components:

titanium dioxide:

Repeated dose toxicity - : No skin irritation, No eye irritation

Assessment No adverse effect has been observed in chronic toxicity tests.

Aspiration toxicity

No data available

according to GB/T 16483 and GB/T 17519



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Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Ingestion: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.5 mg/l

Exposure time: 96 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 203

titanium dioxide:

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): >

10,000 mg/l

Exposure time: 96 h
Test Type: semi-static test
Test substance: Marine water
Method: OECD Test Guideline 203

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 2.7 mg/l

aquatic invertebrates Exposure time: 48 h

Test Type: static test

Test substance: Fresh water

according to GB/T 16483 and GB/T 17519



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Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 9.4 mg/l

Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: EPA-660/3-75-009

M-Factor (Acute aquatic

toxicity)

: No data available

Toxicity to fish (Chronic

toxicity)

: No data available

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0.3 mg/l

Exposure time: 21 d

aquatic invertebrates (Chronic toxicity)

Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic

toxicity)

: No data available

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: Toxicity to microorganisms : IC50 (activated sludge): > 100 mg/l

Exposure time: 3 h
Test Type: static test

Test substance: Fresh water

Toxicity to soil dwelling

organisms

: No data available

Components:

titanium dioxide:

Plant toxicity : NOEC: 100,000 mg/kg

Exposure time: 480 h

Components:

titanium dioxide:

Sediment toxicity : (Gammarus pulex (Amphipod)): > 100000 mg/kgsedimentdw

Study: Acute

Test Type: semi-static test Water: Fresh water Exposure duration: 28 d Method: ASTM Method, other

(Gammarus pulex (Amphipod)): 100000 mg/kgsedimentdw

Study: Chronic

according to GB/T 16483 and GB/T 17519



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Test Type: semi-static test Water: Fresh water Exposure duration: 28 d Method: ASTM Method, other

(Gammarus pulex (Amphipod)): 14989 mg/kgsedimentdw

Study: Acute

Test Type: semi-static test Water: Marine water Exposure duration: 10 d

Components:

titanium dioxide:

Toxicity to terrestrial : NOEC: 10,000 mg/kg organisms Exposure time: 672 h

Ecotoxicology Assessment

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

Persistence and degradability

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Biodegradability : Inoculum: Sewage (STP effluent)

Concentration: 20 mg/l

Result: Not readily biodegradable.

Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Biochemical Oxygen

Demand (BOD)

: No data available

Chemical Oxygen Demand

(COD)

: No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon

(DOC)

: No data available

Physico-chemical

removability

: No data available

according to GB/T 16483 and GB/T 17519



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Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Stability in water : Degradation half life(DT50): 4.83 d (25 °C) pH: 4

Method: OECD Test Guideline 111

Remarks: Fresh water

Degradation half life(DT50): 7.1 d (25 °C) pH: 9

Method: OECD Test Guideline 111

Remarks: Fresh water

Degradation half life(DT50): 3.58 d (25 °C) pH: 7

Method: OECD Test Guideline 111

Remarks: Fresh water

Photodegradation : No data available

Impact on Sewage

Treatment

: No data available

Bioaccumulative potential

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: Bioaccumulation : Bioconcentration factor (BCF): 31

Remarks: Does not bioaccumulate.

titanium dioxide:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

Bioconcentration factor (BCF): 19 - 352

Exposure time: 14 d

Test substance: Fresh water Method: semi-static test

Remarks: Does not bioaccumulate.

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Partition coefficient: n-: log Pow: 3.242 (25 °C)

pH: 7.1 octanol/water

Method: OECD Test Guideline 117

Mobility in soil

Mobility : No data available

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Distribution among : Koc: 445

environmental compartments

Stability in soil : No data available

Other adverse effects

Environmental fate and : No data available

according to GB/T 16483 and GB/T 17519



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pathways

Results of PBT and vPvB

assessment

: No data available

Endocrine disrupting

potential

: No data available

Adsorbed organic bound

halogens (AOX)

: No data available

Hazardous to the ozone layer

Ozone-Depletion Potential Not applicable

Additional ecological

information - Product

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

Global warming potential

(GWP)

: No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and

national regulations.

Dispose of contents/ container to an approved waste disposal

plant.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

14. TRANSPORT INFORMATION

International Regulations

IATA

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(BISPHENOL A EPOXY RESIN)

Class : 9 Packing group : III

Labels : Miscellaneous

according to GB/T 16483 and GB/T 17519



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: 964

Packing instruction (cargo

aircraft)

Packing instruction : 964

(passenger aircraft)

IMDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN)

Class : 9
Packing group : III
Labels : 9

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

National regulatory information

China Occupational Disease Prevention Law

Occupational hazard factor classification category : Not listed

Occupational disease list : Not listed

Regulations on Safety Management of Hazardous Chemicals

Hazardous chemicals list : Not listed

Identification of major hazard installations for

dangerous chemicals

: Not listed

Key supervision chemical substances : Not listed

according to GB/T 16483 and GB/T 17519



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Labor Protection Regulations

High toxic substances catalog : Not listed

Environmental management regulations for first import of chemicals and import & export of toxic chemicals

Strictly controlled toxic chemicals for import/export : Not listed

Environmental Administration of New Chemical Substances

Inventory of existing chemicals in China : On the inventory, or in compliance

with the inventory

Law on the Prevention and Control of Occupational Diseases

The components of this product are reported in the following inventories:

CH INV : The formulation contains substances listed on the Swiss

Inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA

(USA)

16. OTHER INFORMATION

Date format : yyyy/mm/dd

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

GBZ 2.1-2007 : Occupational exposure limits for hazardous agents in the

workplace - Chemical hazardous agents.

ACGIH / TWA : 8-hour, time-weighted average

GBZ 2.1-2007 / PC-TWA : Permissible concentration - time weighted average

according to GB/T 16483 and GB/T 17519



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