



TWEHA Synthetic Primer

Safety Data Sheet

according to Regulation (EC) No. 453/2010
Date of issue: 3/10/2019

Version: 1. 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Tweha SyntheticPrimer

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Tweha Professional BV
Cuserstraat 93
NL-1081 CN AMSTERDAM - HOLLAND
T +31 88 999 81 81
E info@tweha.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Composition / Information on ingredients

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Flam. Liq 3 H226
Skin Sens. 1 H317
Long-term (chronic) aquatic H411
Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC (DSD) or 1994/45/EC (DPD)

No additional information available.

Adverse physicochemical, human health and environmental effects

No additional information available.

2.2. Label elements

Labelling according to Regulation (EC) Hazard pictograms (CLP)



GHS02

GHS07

GHS08

Signal word (CLP)

: Warning

Hazard statements

H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking

Supplementa Hazard Statements

Precautionary Statements

P102 Keep out of reach of children
Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P261 Avoid breathing vapors.
P280 Wear protective gloves.

Response:



TWEHA Synthetic Primer

Safety Data Sheet

according to Regulation (EC) No. 453/2010
Date of issue: 3/10/2019

Version: 1. 2

	P302+P352	IF ON SKIN: wash with plenty of soap and water.
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
	P362+P364	Take off contaminated clothing and wash it before re-use.
Disposal:	P501	Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.
Hazardous components which must be listed on the label:		Reaction mass of Biss (1,2,2,2,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Hydrocarbons, C10- C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9 01-2119457273-39- XXXX	10-15	Asp. Tox.1; H304 The CAS number is no longer specified in REACH registration, but still serves as
trizinc bis(orthophosphate)	7779-90-0 231-944-3 01-2119485044-40- XXXX	5-<12.5	Aquatic Acute1; H400 Aquatic Chronic1; H410
Hydrocarbons, C9- C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9 01-2119471843-32- XXXX	2.5-<7.5	Flam. Liq.3; H226 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic3; H412
zinc oxide	1314-13-2215-222-5 01-2119463881-32- XXXX	1 – 5-<12.5	Aquatic Acute1; H400 Aquatic Chronic1; H410
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	915-687-0 01-2119491304-40- XXXX	0.1-<0.25	Aquatic Chronic1; H410 Aquatic Acute1; H400 Skin Sens.1A; H317

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Inhalation	Move to fresh air in case of accidental inhalation of vapours or decomposition products. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
Skin contact	Take off contaminated clothing and shoes immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.



TWEHA Synthetic Primer

Safety Data Sheet

according to Regulation (EC) No. 453/2010
Date of issue: 3/10/2019

Version: 1. 2

Ingestion Rinse mouth with water.
If swallowed, seek medical advice immediately and show this container or label.
Keep at rest.
Do NOT induce vomiting.

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

Symptoms Inhalation may provoke the following symptoms:
Headache
Dizziness
Drowsiness
Unconsciousness
Skin contact may provoke the following symptoms:
Irritant effects

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

Treatment Treat symptomatically
No information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Unsuitable extinguishing media : High volume water jet.

5.2. Special hazards arising from the substance or mixture

Fire may cause evolution of: Carbon monoxide Carbon dioxide (CO₂) Nitrogen oxides (NO_x)
Exposure to decomposition products may be a hazard to health.
Cool closed containers exposed to fire with water spray.

5.3. Advice for firefighters

Firefighting instructions : In the event of fire, wear self-contained breathing apparatus. Fight Fire with normal precautions from a reasonable distance.
Additional advice : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Ensure adequate ventilation. Do not breathe vapor. Prevent unauthorized access.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4. Reference to other sections

See Heading 7 and 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle Comply with the statutory regulations on health and safety at work. Avoid formation of aerosol. Prevent the creation of flammable or explosive concentrations of vapor in air and



TWEHA Synthetic Primer

Safety Data Sheet

according to Regulation (EC) No. 453/2010
Date of issue: 3/10/2019

Version: 1. 2

avoid vapor concentration higher than the occupational exposure limit values. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. All metal parts of the mixing and processing equipment must be earthed. Operators should wear antistatic footwear and clothing. No sparking tools should be used.

Hygiene measures : Do not breathe spray, vapor. Take off immediately contaminated clothing. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. After washing hands, replenish lost skin oil by means of oily skin ointment. When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Comply with the statutory regulations on health and safety at work. Avoid formation of aerosol. Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limit values. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. All metal parts of the mixing and processing equipment must be earthed. Operators should wear antistatic footwear and clothing. No sparking tools should be used.

Advice on protection against fire/explosion : Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Keep away from sources of ignition -No smoking. Take measures to prevent build-up of electrostatic charge.

Advice on common storage : Keep away from combustible materials. Keep away from food, drink and animal feeding stuffs. Keep away from oxidizing agents and strongly acid or alkaline materials.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The lists that were valid during creation were used as basis. Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates solvent vapor below the occupational exposure limit values, suitable respiratory protection must be worn. Washing facilities / water for rinsing eyes and skin should be available.

Personal protective equipment : Avoid all unnecessary exposure. Preventive skin protection. Long sleeve clothing. Personal should wear antistatic clothing made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body must be washed after contact.

Hand protection : Protective gloves should be worn in case of skin contact during preparation and application. Break through time: 480 min Minimum thickness: 0,4 mm; Gloves made of nitrile rubber, e.g. KCL 730 amatril® Velours (Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659- 87-300, kcl-uk@kcl.de), or equivalent. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it

Eye protection : Chemical goggles or safety glasses according EN 166

Skin and body protection : Wear suitable protective clothing. Before starting work, apply water-resistant skincare preparations to exposed skin areas. Skin that comes into contact with the product should be treated with protective cream. After such contact, the product concerned should under no circumstances be used.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the occupational exposure limit values they must use appropriate certified respirators. Breathing protection equipment required in inadequately ventilated places and during spraying. In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Combination filter A-P2 Respiratory protection complying with EN 14387.

Environmental exposure control : The product should not be allowed to enter drains, water courses or the soil. If the product contaminates rivers and lakes or drains inform respective authorities.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties



TWEHA Synthetic Primer

Safety Data Sheet

according to Regulation (EC) No. 453/2010
Date of issue: 3/10/2019

Version: 1. 2

Physical state	: Liquid
Color	: Black
Odor	: Characteristic
Odor Threshold	: No data available
pH	: not determined
Melting point	: not determined
Freezing point	: not determined
Boiling point	: 140 °C
Flash point	: 35,5 °C
Evaporation rate	: not determined
Flammability (solid. Gas)	: not applicable
Upper flammability limit	: 7 % (V) Upper explosion limit
Lower flammability limit	: 0,6 % (V) Lower explosion limit
Vapour density	: not determined
Density	: ca. 1,448 g/cm ³
Solubility (water solubility)	: insoluble
Partition coefficient: n-octanol/water	: not determined
Auto-ignition temperature	: non-auto-flammable
Viscosity, dynamic	: ca. 160 mPas (40 °C)
Viscosity, kinematic	: ca. 110,5 mm ² /s (40 °C)
Explosive properties	: not explosive, in use may form flammable/explosive vapor-air mixture
Oxidizing properties	: not applicable

9.2. Other information

Solvent separation	: < 3% (V)
Flow time	: > 90 s at 20 °C Cross section: 4 mm Method; ISO 2431

Gas / vapor heavier than air, may accumulate in confined spaces, particularly in basements, wells, etc.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use. Vapor may form explosive mixture with air.

10.4. Conditions to avoid

Avoid direct sources of heat, strong sunlight for prolonged periods.

10.5. Incompatible materials

Materials to avoid: Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed products. Decomposition temperature, no data available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	
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

Product: Repeated exposure may cause skin dryness or cracking.



TWEHA Synthetic Primer

Safety Data Sheet

according to Regulation (EC) No. 453/2010
Date of issue: 3/10/2019

Version: 1. 2

Components

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics:	Repeated exposure may cause skin dryness or cracking.
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:	Repeated exposure may cause skin dryness or cracking
Serious eye damage/eye irritation	
Product:	Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Product: May cause an allergic skin reaction. Does not cause respiratory sensitization

Components:

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate:

Method OECD Test Guideline 406

May cause an allergic skin reaction.

Germ cell mutagenicity

Product: Genotoxicity in vitro Based on available data, the classification criteria are not met.

Carcinogenicity

Product: Based on available data, the classification criteria are not met.

Reproductive toxicity

Product: Effects on fertility. Based on available data, the classification criteria are not met.

Developmental Toxicity Based on available data, the classification criteria are not met

STOT – single exposure

Product: Based on available data, the classification criteria are not met.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Assessment May cause drowsiness or dizziness.

STOT - repeated exposure Product:

Based on available data, the classification criteria are not met.

Aspiration toxicity Product:

Based on available data, the classification criteria are not met.

Components:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics: May be fatal if swallowed and enters airways.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics: May be fatal if swallowed and enters airways.

Experience with human exposure

Product:

General Information

Exposure to component solvent vapors concentration in excess of the stated occupational exposure limit may result in adverse health effects. Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness. Long-term or repeated contact with the product leads to degreasing of the skin and can cause nonallergenic contact skin damage (contact dermatitis) and / or the resorption of substances.

Solvent sprays can cause irritation and reversible damage to the eye.

Further information Product: The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish No data available

Components:

zinc bis(orthophosphate):

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)): 0,33 - 6,06 mg/l. Exposure time: 96

h

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 2,34 mg/l Exposure time: 48 h

Toxicity to algae

EC50 (Scenedesmus capricornutum (fresh water algae)): 0,32 mg/l Exp time: 72 h

M-Factor (Short-term(acute) aquatic hazard)

1

M-Factor (Long-term(chronic) aquatic hazard)

1

zinc oxide :

Toxicity to fish

LC50 (Pimephales promelas (fathead minnow)): 0,5 mg/l Exposure time: 96 h



TWEHA Synthetic Primer

Safety Data Sheet

according to Regulation (EC) No. 453/2010
Date of issue: 3/10/2019

Version: 1. 2

M-Factor (Short-term(acute) aquatic hazard) Toxicity to fish (Chronic toxicity)	Test Type: static test 1 NOEC: 0,08 mg/l Exposure time: 21 d Species: Oncorhynchus mykiss (rainbow trout)
M-Factor (Long-term(chronic) aquatic hazard) Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate : Toxicity to fish Toxicity to algae	1 LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,97 mg/l Exposure time: 96 h EC50 (Desmodesmus subspicatus (green algae)): 1,68 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Short-term(acute) aquatic hazard) Toxicity to bacteria	1 EC50 (activated sludge): > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

12.2. Persistence and degradability

Product:

Biodegradability No data available

Components:

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate :
Biodegradability Test Type: aerobic Result: not rapidly degradable
Biodegradation: 38 % Exposure time: 28 d Method: OECD Test Guideline 301F

12.3. Bio-accumulative potential

Product:

Bioaccumulation No data available

Components:

trizinc bis(orthophosphate) : B
ioaccumulation Does not bioaccumulate.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics :
Partition coefficient: n- octanol/water log Pow: 4

zinc oxide : Bioaccumulation is unlikely.

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate :
Bioaccumulation is unlikely.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Additional information Avoid release to the environment. Do not use in the direct vicinity of bodies of water. Do not allow the agent or any product residues to enter into waters, the soil or the sewage system. Even small quantities emptied into the soil can affect the quality of drinking water. Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product	The user is responsible for proper coding and marking of any waste. When used as recommended, the waste code can be selected according to the code of the European Waste Catalogue (EWC), category 17.09 "Other construction and Demolition Waste" Partial and residual quantities can be reused. Fluid remains constitute hazardous waste and should not be poured into the sewage system. They should be taken to a local waste disposal site.
Contaminated packaging	Packaging that is not properly emptied must be disposed of as the unused product. Empty packaging should be recycled through disposal systems.
Waste key for the unused product.	08 01 11* waste paint and varnish containing organic solvents or other hazardous substances (*) hazardous waste in terms of the European directive 91/689/EEC

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / AND






TWEHA Synthetic Primer

Safety Data Sheet

according to Regulation (EC) No. 453/2010
Date of issue: 3/10/2019

Version: 1. 2

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1263	1263	1263	1253	1263
14.2. UN proper shipping name				
PAINT	PAINT	PAINT	PAINT	PAINT
Transport document description				
	zinc oxide, trizinc bis (orthophosphate)			
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
III Classification Code F1 Hazard identification Number 30 Labels 3 Tunnel restriction code (D/E)	III Labels 3 EmS number F-E, S-E	III Labels 3	III	III
14.5. Environmental hazards				
Environmentally hazardous: Yes	Marine pollutant :Yes			

14.6. Special precautions for user

This information is not available

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

Not applicable

Additional advice

ADR: Packages < 5 l: No dangerous goods (ADR 2.2.3.1.5).

IMDG: Packages < 5 l: No dangerous goods (IMDG 2.3.2.5).

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

VOC Directive 2010/75/EU 24,1 %
 VOC Directive 2004/42/EC 24,1 % 348,8 g/l
 EU limit value for this product (cat. A/i) :500 g/l This product contains max500 g/IVOC.

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals:
Not applicable.

Other regulations Comply with the statutory regulations on health and safety at work.
Take note of Dir 94/33/EC on the protection of young people at work.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

15.2. Chemical safety assessment

This information is not available.

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE



TWEHA Synthetic Primer

Safety Data Sheet

according to Regulation (EC) No. 453/2010
Date of issue: 3/10/2019

Version: 1. 2

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

Changes from the previous version are indicated by markings in the left-hand margin. The information in this Safety Data Sheet corresponds to our present state of knowledge and conforms to both national and EU legislation. The user's working conditions are, however, beyond our knowledge and control. The user is responsible for complying with all necessary legal requirements. The information in this Safety Data Sheet describes the safety requirements of our product and does not constitute any assurance of product properties.

Full text of H-Statements

H226 : Flammable liquid and vapour.
H304 : May be fatal if swallowed and enters airways.
H317 : May cause an allergic skin reaction.
H336 : May cause drowsiness or dizziness.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard Asp. Tox. : Aspiration hazard
Flam. Liq. : Flammable liquids
Skin Sens. : Skin sensitisation
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECS

- Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information: It is possible in the interim period that you may find different markings on packaging compared to the Material Safety Data Sheet until stocks have been used up. We ask for your understanding in this matter.

Department issuing MSDS

info@tweha.com

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product