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Safety Data Sheet
POWERTEX HARDENER

Version : 1
Creation Date : 13/01/2023
Revision Date : 13/01/2023

1. Identification of the substance/mixture and of the company/undertaking

Product Identifier

Product type :	Mixture
Trade name :	Powertex Hardener
Trade code :	9073914
Synonyms :	POWERTEX Transparant, White, Ivory, Yellow Ocher, Red, Terracotta, Leadgray, Bronze, Green, Blue, Black

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

Recommended Use	Polymer for industry
Used advised against	No information available

Details of the supplier of the Safety Data Sheet

Name of the company	Powertex International
Address of the company	Strombeeksesteenweg 205, 1800 Koningslo-Vilvoorde, Belgium
Telephone number	+32 (0)2 310 60 90
Fax number	+32 (0)2 310 66 99
E-mail address	info@powertex.be – www.powertex.be

Emergency phone number

Emergency phone number	+32 (0)70 245 245

2. Hazards identification

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

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
Adverse physicochemical, human health and environmental effects:
No other hazards

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Label elements
The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Special Provisions:

EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH208	Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Special provisions according to Annex XVII of REACH and subsequent amendments:
None.

Other hazards
No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%.
Other Hazards: No other hazards.

3. Composition/information on ingredients

Chemical Name	Ident. Numb.	Concentration (weight percent, %)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS:2634-33-5 EC:220-120-9 Index:613-088-00-6	≥0.025 - <0.05 %	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Chronic 2, H411 Specific Concentration Limits: C ≥ 0,05%: Skin Sens. 1 H317
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	CAS:55965-84-9 EC:611-341-5 Index:613-167-00-5	<0.0015 %	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 3, H301 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Acute Tox. 2, H310 Acute Tox. 2, H330 Eye Dam. 1, H318, M-Chronic:100, MAcute: 100 Specific Concentration Limits: C ≥ 0,6%: Skin Corr. 1C H314 0,06% ≤ C < 0,6%: Skin Irrit. 2 H315 C ≥ 0,6%: Eye Dam. 1 H318 0,06% ≤ C < 0,6%: Eye Irrit. 2 H319 C ≥ 0,0015%: Skin Sens. 1A H317

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4. First aid measures

Description of first aid measures

Inhalation

Remove casualty to fresh air and keep warm and at rest.

Skin contact

Wash with plenty of water and soap.

Eye contact

Wash immediately with water.

Ingestion

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

Most important symptoms and effects, both acute and delayed

Not available.

Indication of any immediate medical attention and special treatment needed

Not available.

5. Firefighting measures

Extinguishing media

Suitable extinguishing media Water. Carbon dioxide (CO2).

Unsuitable extinguishing media None in particular.

Specific hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Advice for firefighters

Use suitable breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

Environmental precautions

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Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Limit leakages with earth or sand.

Methods and materials for containment and cleaning up
Suitable material for taking up: absorbing material, organic, sand
Retain contaminated washing water and dispose it.

7. Handling and storage

Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.

Incompatible materials:	None in particular.
Instructions as regards storage premises:	Adequately ventilated premises.

Specific end uses
None in particular.

8. Exposure controls/personal protection

Control parameters
No data available.

Exposure controls
Eye protection:
Not needed for normal use. Anyway, operate according good working practices.
Protection for skin:
No special precaution must be adopted for normal use.
Protection for hands:
Suitable materials for safety gloves; EN ISO 374:
Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min.
Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.
Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.
Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.
Respiratory protection:

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Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.
Not needed for normal use. Anyway, operate according good working practices.

Hygienic and Technical measures
Not available
Appropriate engineering controls:
Not available

9. Physical and chemical properties

Physical and chemical properties

Physical state:	Liquid
Appearance:	Liquid
Color:	Characteristic
Odour:	Characteristic
Odour threshold:	
Melting point / freezing point:	Not available
Initial boiling point and boiling range:	100 °C (212 °F)
Flammability:	N.A.
Upper/lower flammability or explosive limits:	Not available
Flash point:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
pH:	4.50
Viscosity:	Not available
Kinematic viscosity:	Not available
Solubility in water:	Dispersible
Solubility in oil:	Insoluble
Partition coefficient (n-octanol/water):	Not available
Vapour pressure:	Not available
Relative density:	1.10 g/cm3
Vapour density:	Not available
Particle characteristics:	
Particle size:	Not available
Other information	
Miscibility:	Not available
Conductivity:	Not available

No other relevant information

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10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None.
Conditions to avoid	Stable under normal conditions.
Incompatible materials	None in particular.
Hazardous decomposition products	None.

11. Toxicological information

Information on hazard classes as defined in Regulation (EC) No 1272/2008
Toxicological information of the mixture:

Acute toxicity
Not classified. Based on available data, the classification criteria are not met.

Skin corrosion/irritation
Not classified. Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation
Not classified. Based on available data, the classification criteria are not met.

Respiratory or skin sensitization
Not classified. Based on available data, the classification criteria are not met.

Germ cell mutagenicity
Not classified. Based on available data, the classification criteria are not met.

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

Reproductive toxicity
Not classified. Based on available data, the classification criteria are not met.

STOT - single exposure
Not classified. Based on available data, the classification criteria are not met.

STOT - repeated exposure
Not classified. Based on available data, the classification criteria are not met.

Aspiration hazard
Not classified. Based on available data, the classification criteria are not met.

Others

Endocrine disrupting properties
No endocrine disruptor substances present in concentration >= 0.1%

Toxicological information on main components of the mixture:

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

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acute toxicity : LD50 Oral Rat = 1020 mg/kg
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)
acute toxicity : LC50 Inhalation Rat = 2,36000 mg/l 4h
LD50 Skin Rabbit = 660,00000 mg/kg
LD50 Oral Rat = 53,00000 mg/kg

12. Ecological information

Toxicity
Adopt good working practices, so that the product is not released into the environment.
Eco-Toxicological Information:
List of Eco-Toxicological properties of the product
Not classified for environmental hazards
Based on available data, the classification criteria are not met

Chemical Name	Ident. Numb.	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS:2634-33-5 EC:220-120-9 Index:613-088-00-6	Aquatic acute toxicity : LC50 Fish = 2,15000 mg/L Aquatic chronic toxicity : NOEC Algae = 0,04030 mg/L 72h Aquatic chronic toxicity : EC50 Algae = 0,11000 mg/L 72h Aquatic chronic toxicity : EC10 Algae = 0,04000 mg/L 72h Aquatic chronic toxicity : EC50 Daphnia = 3,27000 mg/L 48h NOEC Daphnia = 1,20000 mg/L 21d
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	CAS:55965-84-9 EC:611-341-5 Index:613-167-00-5	Aquatic acute toxicity : EC50 Daphnia = 0,12 mg/L 48 Aquatic acute toxicity : LC50 Fish = 0,22 mg/L 96 Aquatic acute toxicity : EC50 Algae = 0,048 mg/L 72 Aquatic chronic toxicity : NOEC Algae = 0,0012 mg/L 72 Aquatic chronic toxicity : NOEC Fish = 0,098 mg/L - 28 d Aquatic chronic toxicity : NOEC Daphnia = 0,004 mg/L - 21 d

Persistence and degradability
N.A.
Bioaccumulative potential
N.A.
Mobility in soil
N.A.
Results of PBT and vPvB assessment
No PBT, vPvB or endocrine disruptor substances
present in concentration >= 0.1%.
Endocrine disrupting properties Other adverse effects

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No endocrine disruptor substances present in concentration >= 0.1%

Other adverse effects
Not available.

13. Disposal considerations

Waste treatment methods
The generation of waste should be avoided or minimized wherever possible. Recover if possible. A waste code (EWC) according to European List of Waste (LoW) cannot be specified, due to dependence on the usage. Contact and send to an authorized waste disposal service.
Methods of disposal:
Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Do not dispose of waste into sewers. Clean waste packaging should be recycled when possible and authorized by the authority.
Hazardous waste:
No
Disposal considerations:
Do not allow to enter drains or watercourses. Dispose of product according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply an the appropriate code should be assigned. Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.
Special precautions:
This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Do not re-use empty containers.

14. Transport information

Not classified as dangerous in the meaning of transport regulations.

UN number or ID number
Not Applicable
UN proper shipping name

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Not Applicable
Transport hazard class(es)
Not Applicable
Packing group
Not Applicable
Environmental hazards
Not Applicable

Special precautions for user
Not Applicable
Road and Rail (ADR-RID) :
Not Applicable
Air (IATA) :
Not Applicable
Sea (IMDG) :
Not Applicable
Maritime transport in bulk according to IMO instruments
Not Applicable

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
European Union
VOC (2004/42/EC) : N.A. g/l
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EU) n. 2020/878
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)

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Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Provisions related to directive EU 2012/18 (Seveso III): N.A.

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None.
Restrictions related to the substances contained: 28, 40, 72, 75
Additional restrictions: Restriction 28, due to the presence of CAS 75-07-0

SVHC Substances:
SVHC substances not present in a concentration ≥ 0.1% (w/w)

German Water Hazard Class (WGK)
1

Chemical safety assessment
No Chemical Safety Assessment has been carried out for the mixture.

16. Others

If appropriate, specific provisions in relation to possible training for workers are mentioned in section 2. Any training related to safety in the workplace must in any case refer to a risk assessment that must be carried out by a company safety officer taking into account the specific operating and environmental conditions in which the products are used.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

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This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate
ATEmix: Acute toxicity Estimate (Mixtures)
BCF: Biological Concentration Factor
BEI: Biological Exposure Index
BOD: Biochemical Oxygen Demand
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CAV: Poison Center
CE: European Community
CLP: Classification, Labeling, Packaging.
CMR: Carcinogenic, Mutagenic and Reprotoxic
COD: Chemical Oxygen Demand
COV: Volatile Organic Compound
CSA: Chemical Safety Assessment
CSR: Chemical Safety Report
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level.
DPD: Dangerous Preparations Directive
DSD: Dangerous Substances Directive
EC50: Half Maximal Effective Concentration
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances.
ES: Exposure Scenario
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: KAFH

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KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.