



SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II,
as amended by Regulation (EU) No. 2015/830 - United Kingdom (UK)

Revision nr. 4

Dated 24/06/2020

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Printed on 24/06/2020

Replaced revision:3 (Dated: 21/11/2019)

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

1.1. Product identifier

Product name **Centrecoat Water Based Line Marking Paint**

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

Intended use

WATERBORNE TRAFFIC PAINT

Identified Uses

WATERBORNE TRAFFIC PAINT
EXTERNAL USE

Industrial

-

Professional

ERC: 8d.
PROC: 10, 11, 18, 19, 5, 8a.
PC: 9a.

Consumer

-

Uses Advised Against

Any use other than those indicated in this sheet.

1.3. Details of the supplier of the safety data sheet

Name
Full address
District and Country

Promain UK Limited
Promain House, Pierson Court
Knowl Piece, Hitchin
Hertfordshire, SG4 0TY
Tel. +44 01462 421333

e-mail address of the competent person
responsible for the Safety Data Sheet

info@promain.co.uk

1.4. Emergency telephone number

For urgent inquiries refer to

+44 (0) 1462 421333
(Only available office Monday/Thursday hours 08.30 to 17.30, Friday 08.30 -
16.30)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2015/830.
Hazard classification and indication:



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2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:

EUH210 Safety data sheet available on request.

Precautionary statements:

--

Product not intended for uses provided for by Dir. 2004/42/CE.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
TITANIUM DIOXIDE		
CAS 13463-67-7	$5 \leq x < 9$	
EC 236-675-5		
INDEX -		
Reg. no. 01-2119489379-17		
ETHANOL		
CAS 64-17-5	$1 \leq x < 2$	Flam. Liq. 2 H225, Eye Irrit. 2 H319
EC 200-578-6		
INDEX 603-002-00-5		
Reg. no. 01-2119457610-43		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

TITANIUM DIOXIDE

Sostanza non classificata pericolosa ai sensi del Regolamento (CE) n. 1272/2008 (CLP) ma con un limite di esposizione sul posto di lavoro.

SECTION 4. First aid measures



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4.1. Description of first aid measures

INHALATION: Move to fresh air.
SKIN CONTACT: Wash with water and soap as a precaution; if the skin irritation persists call a doctor.
CONTACT WITH EYES: Rinse with plenty of water; if eye irritation persists, consult a doctor.
INGESTION: Drink 1 or 2 glasses of water.
If necessary consult a doctor; do not give anything to fainted people.

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

In addition to the information found in the description concerning the first aid measures (above indicate section 4.1) and within the indications relating to immediate medical care and special treatments required (section 4.3), any other relevant symptom / effect is reported in section 11.

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

NOTES FOR THE DOCTOR: treatment in case of exposure should be aimed at controlling the symptoms and the patient's clinical conditions.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEANS: use appropriate extinguishing media to limit the fire.
UNSUITABLE EXTINGUISHING MEDIA: no data available.

5.2. Special hazards arising from the substance or mixture

HAZARDOUS COMBUSTION PRODUCTS: No data available.
SPECIAL RISKS OF FIRE AND EXPLOSION: the material can give rise to splashes above 100C / 212F. The dry product can burn.

5.3. Advice for firefighters

FIRE EXTINGUISHING PROCEDURE: No data available.
SPECIAL PROTECTION DEVICES FOR FIRE ENTITIES:
Wear a self-contained respirator and protective clothing.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable positive pressure breathing apparatus, or suitable respirator, NIOSH approved or equivalent, full face with positive pressure air inlet with escape respirator in case of emergency.
In case of exposure to the material during cleaning operations see section 4 - FIRST AID MEASURES, for the actions to be performed.

6.2. Environmental precautions

WARNING: keep leakage and washing liquids away from public drains and watercourses.
NOTE: spills on porous surfaces can contaminate underground waters.

6.3. Methods and material for containment and cleaning up

Keep those present away.
Air the room.
Immediately contain spills with inert material (sand, earth).



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Transfer the liquid and solid material used to contain leaks in separate containers suitable for recovery or disposal.

6.4. Reference to other sections

References to other sections, where applicable, have been provided in the previous subsections.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing.
Wash thoroughly after handling the material.
Keep the container tightly closed.
Do not breathe vapors, aerosols or gases.

7.2. Conditions for safe storage, including any incompatibilities

Prevent frost from affecting the stability of the product.
Mix well before use.
Monomer vapors can develop when the material is heated during processing operations.
Frequency of use: up to 300 days / year.
Environment of use: use outdoors.
Operating temperature: room temperature (+ 15 / + 25 ° C).
Other operating conditions that affect the worker's exposure:
Implement an adequate workplace hygiene standard:
take into consideration the Occupational Exposure Limits including biological exposure indicators.
Organizational measures to prevent / limit spills, dispersion and exposure:
consider technical progress and updating processes (including automation) for "eliminating emissions."
•Ensure that operators are trained to minimize exposure.
•Ensure that the ventilation system is regularly subjected to maintenance and operational verification.
•Ensure the minimization of manual phases.
•Eliminate spills immediately.
•Maintain a good level of general cleanliness.

Conditions and measures related to personal protection, hygiene and health assessment:
Wear the PPE indicated in section 8 of the safety data sheet.

7.3. Specific end use(s)

Reference Section 1.2

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition,published 2018)
	TLV-ACGIH	ACGIH 2019

TITANIUM DIOXIDE
Threshold Limit Value



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Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	10				
VLEP	FRA	10				
WEL	GBR	4				RESP
WEL	GBR	10				INHAL
TLV-ACGIH		10				

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,184	mg/l
Normal value in marine water	0,0184	mg/l
Normal value for fresh water sediment	1000	mg/kg/d
Normal value for marine water sediment	100	mg/kg/d
Normal value for water, intermittent release	0,193	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the food chain (secondary poisoning)	100	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Chronic systemic	Effects on workers		
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local
Oral				700 mg/kg/d			
Inhalation							10 mg/m3

ETHANOL Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	380	200	1520	800	
MAK	DEU	380	200	1520	800	
VLA	ESP			1910	1000	
VLEP	FRA	1900	1000	9500	5000	
WEL	GBR	1920	1000			
TLV-ACGIH				1884	1000	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

The use of adequate technical measures should always take priority over personal protective equipment (PPE). Personal protective equipment must bear the CE marking attesting to their compliance with the regulations in force. Provide emergency shower with visocular tray. Manage personal protective equipment so as to ensure maximum protection (eg reduction of replacement times). Based on the activities performed, follow the technical measures described below.

Distribution and storage of the product with occasionally controlled exposure:

No specific provision.

Product transfer and preparation including loading of machines:

Use drum transfer pumps or carefully pour from the container.

Wear the PPE shown below.

Duration of daily exposure: up to 1 hour.

Wear the PPE shown below. Duration of daily exposure: up to 4 hours.

Automated or manual application by brush / roller

Wear the PPE shown below. Duration of daily exposure: up to 8 hours.

Make sure the operation is performed externally.

Equipment cleaning and maintenance:

Completely empty the equipment before entering or performing maintenance. Wear the PPE shown below. Duration of daily exposure: up to 1 hour.

Collection and storage of waste awaiting delivery:

Store washing solutions and product residues in closed containers awaiting disposal.

Wear the PPE shown below.

Duration of daily exposure: up to 1 hour.

HAND PROTECTION

Protect your hands with category III work gloves (ref. Standard EN 374). Suitable gloves (protection factor 6, permeation time > 480 minutes). Material (thickness, mm): butyl rubber (0.5 mm).

SKIN PROTECTION

Wear category II work clothes with long sleeves and safety footwear for professional use (ref. Directive 89/686 / EEC and standard EN ISO 20344).

Wash with soap and water after removing protective clothing.

Evaluate the opportunity to provide antistatic clothing if the work environment presents a risk of explosiveness.

EYE PROTECTION

Wear protective airtight goggles (ref. Standard EN 166).

RESPIRATORY ASPECT

If the threshold value (eg TLV-TWA) of the substance or one or more substances present in the product is exceeded, it is advisable to wear a mask with filter type A combined with a filter of type P2 or higher whose limit of use will be defined by the manufacturer (ref. Standard EN 14387). If gases or vapors of different types are present, combined type filters must be provided. The use of respiratory protective equipment is necessary in the case of technical measures not sufficient to limit the exposure of the worker to the threshold values taken into consideration.

The protection offered by the masks is however limited. In the event that the substance is odorless or its olfactory threshold is higher than the relative TLV-TWA and in case of emergency, wear an open circuit compressed air breathing apparatus (ref. Standard EN 137) or an air intake respirator external (ref. Standard EN 138).

For the correct choice of the respiratory protection device, refer to the EN 529 standard.

ENVIRONMENTAL EXPOSURE CONTROL

Containment and disposal of liquid waste produced on the site.

Treat waste water to ensure a reduction efficiency of over 93.3%. Do not distribute the sludge produced by the wastewater treatment plants on the ground.

Waste treatment and disposal must comply with local / national legislation. The collection and / or recycling of waste must be carried out only by specialized companies authorized in accordance with local / national legislation.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid	
Colour	white	
Odour	typical alcoholic smell	
Odour threshold	18,8 mg/m ³	Substance:ETHANOL
pH	10,03	Method:Ref. Norm. ISO 19396-2017
Melting point / freezing point	0 °C	Substance:WATER
Initial boiling point	100 °C	Remark:760 mmHg
		Substance:WATER
Boiling range	Not available	
Flash point	> 60 °C	



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Evaporation Rate	Not available	
Flammability of solids and gases	Not available	
Lower inflammability limit	Not applicable	
Upper inflammability limit	Not applicable	
Lower explosive limit	Not applicable	
Upper explosive limit	Not applicable	
Vapour pressure	2,4 kPa	Substance:WATER Temperature:25 °C
Vapour density	0,6 kg/m ³	Substance:WATER
Relative density	1,67 g/cm ³ +/- 0,02	Method:Internal method Ref. ISO 2811-1: 2016 Temperature:23 °C +/- 2
Solubility	partially soluble in water	Remark: Referred to the correctly packaged / stored product
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not applicable	
Decomposition temperature	Not available	
Viscosity	>20,5 mm ² /sec	Method:Rif. ISO 3219:1993 Remark: Temperature:40 °C
Explosive properties	it is not classified as explosive	
Oxidising properties	Not classified as an oxidant	

9.2. Other information

VOC (Directive 2010/75/EC) :	2,02 % - 33,66 g/litre
VOC (volatile carbon) :	1,05 % - 17,51 g/litre
Volatility	media (>=0,5 kPa - <10 kPa)

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

ETHANOL

Risk of explosion on contact with: alkaline metals,alkaline oxides,calcium hypochlorite,sulphur monofluoride,acetic anhydride,acids,concentrated hydrogen



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peroxide, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, nitric acid, silver, silver nitrate, ammonia, silver oxide, ammonia, strong oxidising agents, nitrogen dioxide. May react dangerously with: bromoacetylene, chlorine acetylene, bromine trifluoride, chromium trioxide, chromyl chloride, fluorine, potassium tert-butoxide, lithium hydride, phosphorus trioxide, black platinum, zirconium (IV) chloride, zirconium (IV) iodide. Forms explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

ETHANOL

Avoid exposure to: sources of heat, naked flames.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:

Not classified (no significant component)

LD50 (Oral) of the mixture:

Not classified (no significant component)



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LD50 (Dermal) of the mixture:
Not classified (no significant component)

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LD50 (Oral) > 5000 mg/kg Ratto/Rat

LD50 (Dermal) > 5000 mg/kg Coniglio/Rabbit

LC50 (Inhalation) > 6,8 mg/l/4h Ratto/Rat

ETHANOL

LD50 (Oral) 15 g/kg/bw Ratto/Rat

LC50 (Inhalation) > 50 mg/l/4h Ratto/Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: >20,5 mm²/sec

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

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12.1. Toxicity

TITANIUM DIOXIDE

LC50 - for Fish	> 1000 mg/l/96h Cavedano americano
EC50 - for Crustacea	> 1000 mg/l/48h Daphnia magna (Pulce d'acqua grande)
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Pseudokirchneriella subcapitata (alghes cloroficee)

ETHANOL

LC50 - for Fish	15300 mg/l/96h Pimephales promelas
EC50 - for Crustacea	12340 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	275 mg/l/72h Chlorella vulgaris
Chronic NOEC for Crustacea	9600 mg/l Ceriodaphnia dubia (riproduzione, 10 g)
Chronic NOEC for Algae / Aquatic Plants	7900 mg/l Chlamydomonas eugametos

12.2. Persistence and degradability

TITANIUM DIOXIDE

The substance is inorganic; therefore biodegradability tests are not applicable.

TITANIUM DIOXIDE

Solubility in water < 0,001 mg/l

Degradability: information not available

ETHANOL

Rapidly degradable
(BOD₂₀ = 84%)

12.3. Bioaccumulative potential

TITANIUM DIOXIDE

It does not accumulate in organisms.

12.4. Mobility in soil

TITANIUM DIOXIDE

The substance is not mobile in the soil.

12.5. Results of PBT and vPvB assessment

TITANIUM DIOXIDE

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

TITANIUM DIOXIDE

No specific adverse effects are known.

SECTION 13. Disposal considerations

The appropriate management of the waste of the mixture and / or its container must be determined in accordance with the provisions of Directive 2008/98 / EC and subsequent amendments, taking into account of Regulation (EU) no. 1357/2014 and of the Decision (EU) n. 955/2014.

Waste management methods must be assessed on a case-by-case basis, depending on the composition of the waste.

13.1. Waste treatment methods

Reuse if possible.

Waste management is carried out without endangering human health and without harming the environment and in particular without creating risks for water, air, soil, fauna or flora.

Do not dispose of waste in sewers or drainage channels.

Product residues must be disposed of according to the regulations in force.

The transport of waste must also be carried out in compliance with the provisions on the transport of dangerous goods.

CONTAMINATED PACKAGING.

The generation of waste should be avoided or minimized wherever possible.

Incineration and landfilling must only be considered when recycling is not practicable.

Keep the label (s) on the packaging.

Deliver to a person authorized to manage waste.

Receptacles and packaging contaminated with substances or preparations should be treated as the product and sent for recovery or disposal in compliance national waste management rules.

EUROPEAN WASTE CODE.

Waste legislation does not permit the identification of CERs for waste containing the substance / preparation referred to herein, as they they must be identified in accordance with annex D to part IV of the legislative decree 196 on the basis of information not available before the use of the product.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable



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14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

This safety data sheet contains one or more Exposure Scenarios in an integrated form. Contents have been included in sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

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SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Eye Irrit. 2	Eye irritation, category 2
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
EUH210	Safety data sheet available on request.

Use descriptor system:

ERC	8d	Widespread use of non- reactive processing aid (no inclusion into or onto article, outdoor)
PC	9a	Coatings and paints, thinners, paint removers
PROC	10	Roller application or brushing
PROC	11	Non industrial spraying
PROC	18	General greasing /lubrication at high kinetic energy conditions
PROC	19	Manual activities involving hand contact
PROC	5	Mixing or blending in batch processes
PROC	8a	Transfer of substance or mixture (charging and discharging) at non- dedicated facilities

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament



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5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA website
 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

Derivation of information on safe use:

This information was obtained from the consolidation of the exposure scenarios available for the relevant substances contained in the mixture using the LCID method (Lead Component Identification Methodology) proposed by CEFIC (REACH Practical Guide on Safe Use Information for Mixtures under REACH, Final version 6.1 - February 2016). The principle behind this method is that the safe use of a mixture is established by the substances that have contributed to its CLP classification (Lead Components).

It follows that by adopting the operating conditions and the risk management measures identified for the (relevant) scenarios (o) of the Lead Component (s) the use of the mixture should be considered safe.

Guide for downstream users to assess whether they are safely using the mixture:

When the operating conditions and risk management measures described are used, the use of the mixture is considered safe. If additional risk management measures or operating conditions are used, operators should ensure that risks are limited to an equivalent or higher level.

Changes to previous review:

The following sections were modified:

01 / 08 / 09 / 15.