according to Regulation (EC) No. 1907/2006



Benzyl alcohol pure

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

1.1 Product identifier

Trade name : Benzyl alcohol pure

REACH Registration Number : 01-2119492630-38-0000; 01-2119492630-38

Substance name : benzyl alcohol

Index-No. : 603-057-00-5

EC-No. : 202-859-9

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

Use of the Sub- : Intermediate, Solvent

stance/Mixture A tabular overview of all uses for which an exposure scenario

is provided can be found at the beginning of the annex to this

safety data sheet.

1.3 Details of the supplier of the safety data sheet

Company : Level 7 Chemical

255 Sturgis Rd Conway, AR 72034 (855) 927-1777

1.4 Emergency telephone number

Emergency telephone number : CHEMTREC (800) 424-9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H302: Harmful if swallowed.

Acute toxicity, Category 4 H332: Harmful if inhaled.

Eye irritation, Category 2 H319: Causes serious eye irritation.

2.2 Label elements

according to Regulation (EC) No. 1907/2006

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Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Warning

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.

H319 Causes serious eye irritation.

Precautionary statements : Prevention:

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

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

air and keep comfortable for breathing. Call a POISON

CENTER/ doctor if you feel unwell.

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

easy to do. Continue rinsing.

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

attention.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : benzyl alcohol

Index-No. : 603-057-00-5

EC-No. : 202-859-9

Components

Chemical name	CAS-No.EC-No.	Classification	Concentration (% w/w)
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benzyl alcohol | 100-51-6 | Acute Tox. 4; H302 | >= 90 - <= 100

202-859-9 Acute Tox. 4; H332 Eye Irrit. 2; H319

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Flush skin with large amounts of water. If irritation develops

and persists, get medical attention.

Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse.

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

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Harmful if swallowed or if inhaled.

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Basic aid, decontamination, symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or

 CO_2 .

Unsuitable extinguishing

media

High volume water jet

according to Regulation (EC) No. 1907/2006

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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

In a fire or if heated, a pressure increase will occur and the

container may burst.

Hazardous combustion prod: :

ucts

Carbon dioxide (CO2)
Carbon monoxide

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information : Standard procedure for chemical fires.

Cool closed containers exposed to fire with water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for 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.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Annex should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Technical measures : Provide sufficient air exchange and/or exhaust in work rooms.

Advice on safe handling : Do not breathe vapours or spray mist.

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

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Dispose of rinse water in accordance with local and national

regulations.

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Advice on protection against

fire and explosion

Provide sufficient air exchange and/or exhaust in work rooms.

Take precautionary measures against electrostatic discharg-

es.

Hygiene measures : When using do not eat, drink or smoke. Wash hands before

breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Ensure effective ventilation. Vent waste air only via suitable separators or scrubbers. Take action to prevent static dis-

charges.

Recommended storage tem: :

perature

< 50 °C

Further information on stor-

age stability

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Adhesives, sealants

Metal surface treatment products Non-metal surface treatment products

Heat transfer fluids

Intermediate

Lubricants, greases, release products

Photo-chemicals

Paper and board treatment products

Polishes and wax blends

Polymer preparations and compounds

Textile dyes, finishing and impregnating products; including

bleaches and other processing aids Washing and cleaning products Cosmetics, personal care products

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Annex should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
benzyl alcohol	Workers	Inhalation	Systemic effects, Long-term exposure	22 mg/m3
	Workers	Inhalation	Short-term exposure,	110 mg/m3

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			Systemic effects	
Work	ers De	rmal	Long-term exposure, Systemic effects	8 mg/kg bw/day
Work	ers De	rmal	Short-term exposure, Systemic effects	40 mg/kg bw/day
Cons	umers Inh	alation	Systemic effects, Long-term exposure	5.4 mg/m3
Cons	umers Inh	alation	Short-term exposure, Systemic effects	27 mg/m3
Cons	umers De	rmal	Long-term exposure, Systemic effects	4 mg/kg bw/day
Cons	umers De	rmal	Short-term exposure, Systemic effects	20 mg/kg bw/day
Cons	umers Ora	al	Long-term exposure, Systemic effects	4 mg/kg bw/day
Cons	umers Ora	al	Short-term exposure, Systemic effects	20 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
benzyl alcohol	Fresh water	1 mg/l
	Freshwater - intermittent	2.31 mg/l
	Marine water	0.1 mg/l
	Sewage treatment plant	39 mg/l
	Fresh water sediment	5.27 mg/kg dry weight (d.w.)
	Marine sediment	0.527 mg/kg dry weight (d.w.)
	Soil	0.456 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Wearing time : < 60 min

Material : Butyl rubber - IIR

Material : Fluorinated rubber - FKM

Material : Polyvinyl chloride - PVC

Remarks : After contamination with product change the gloves immedi-

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ately and dispose of them according to relevant national and

local regulations

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an ap-

proved filter.

Filter type : ABEK-filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : slight, aromatic

Odour Threshold : No data available

pH : No data available

Melting point/range : -15.4 °C

Boiling point/boiling range : 205.3 °C (1,013 hPa)

Flash point : 100.4 °C

Method: closed cup

Evaporation rate : No data available

Burning number : No data available

Upper explosion limit / Upper

flammability limit

13 %(V)

Lower explosion limit / Lower

flammability limit

1.3 %(V)

Vapour pressure : 0.07 hPa (20 °C)

Relative density : No data available

Density : 1.045 g/cm3 (20 °C)

Solubility(ies)

Water solubility : 40 g/l (25 °C)

Solubility in other solvents : No data available

according to Regulation (EC) No. 1907/2006

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Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : 436 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 5.84 mPa.s (20 °C)

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

9.2 Other information

Self-ignition : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

This product is stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : Under normal conditions of storage and use, hazardous reac-

tions will not occur.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity : Acute toxicity estimate: 1,620 mg/kg

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Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:

benzyl alcohol:

Acute oral toxicity : LD50 (Rat, male): 1,620 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4.178 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Remarks: Highest producible concentration.

Dosage caused no mortality

Skin corrosion/irritation

Not classified based on available information.

Components:

benzyl alcohol:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

GLP : yes

Remarks : Mild skin irritation

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

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

benzyl alcohol:

Species : Rabbit Exposure time : 24 h

Method : OECD Test Guideline 405

Result : Irritation to eyes, reversing within 21 days

GLP : yes

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

according to Regulation (EC) No. 1907/2006

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Components:

benzyl alcohol:

Exposure routes : Skin contact Species : Mouse

Method : OECD Test Guideline 429

Result : Did not cause sensitisation on laboratory animals.

GLP : yes

Germ cell mutagenicity

Not classified based on available information.

Components:

benzyl alcohol:

Genotoxicity in vitro : Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive GLP: yes

Test system: mouse lymphoma cells

Metabolic activation: with metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Test system: mouse lymphoma cells

Metabolic activation: without metabolic activation

Method: OECD Test Guideline 476

Result: positive GLP: yes

Test system: Chinese hamster ovary cells Metabolic activation: without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Test system: Chinese hamster ovary cells Metabolic activation: with metabolic activation

Method: OECD Test Guideline 473

Result: positive

Genotoxicity in vivo : Species: Mouse (male)

Cell type: Bone marrow

Application Route: Intraperitoneal Method: OECD Test Guideline 474

Result: negative

Species: Drosophila melanogaster (vinegar fly)

Method: OECD Test Guideline 477

Result: negative

according to Regulation (EC) No. 1907/2006

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Carcinogenicity

Not classified based on available information.

Components:

benzyl alcohol:

Species : Rat, male and female

Application Route : Oral Exposure time : 103 weeks

Method : OECD Test Guideline 451

Result : negative GLP : yes

Reproductive toxicity

Not classified based on available information.

Components:

benzyl alcohol:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

Duration of Single Treatment: 91 d Frequency of Treatment: 5 days/week

General Toxicity - Parent: NOAEL: 400 mg/kg body weight

Fertility: NOAEL: 800 mg/kg body weight

GLP: yes

Species: Mouse, male and female

Application Route: Oral

Duration of Single Treatment: 91 d Frequency of Treatment: 5 days/week

General Toxicity - Parent: NOAEL: 200 mg/kg body weight

Fertility: NOAEL: 800 mg/kg body weight

GLP: yes

Species: Rat, male and female Application Route: Inhalation Duration of Single Treatment: 28 d Frequency of Treatment: 5 days/week

General Toxicity - Parent: NOAEC: 1,072 mg/m³

Fertility: NOAEL: 1,072 mg/m³ Method: OECD Test Guideline 412

GLP: yes

Effects on foetal develop-

ment

Species: Mouse

Application Route: Oral

Duration of Single Treatment: 7 d

General Toxicity Maternal: LOAEL: 750 mg/kg body weight Developmental Toxicity: LOAEL: 750 mg/kg body weight

GLP: yes

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STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

benzyl alcohol:

Species : Rat, male and female

NOAEL : 400 mg/kg Application Route : Oral Exposure time : 721 d

Number of exposures : 5 days/week

Method : OECD Test Guideline 451

GLP : yes

Remarks : Chronic toxicity

Species : Rat, male and female

NOAEC : 1072 mg/m3
Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 28 d
Number of exposures : 6 hours/day

Method : OECD Test Guideline 412

GLP : yes

Remarks : Subacute toxicity

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

benzyl alcohol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 460 mg/l

End point: mortality Exposure time: 96 h

Method: EPA OPP 72-1 (Fish Acute Toxicity Test)

GLP: no

Toxicity to daphnia and other :

EC50 (Daphnia magna (Water flea)): 230 mg/l

aquatic invertebrates End point: Immobilization

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Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (microalgae)): 770

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

NOEC (Pseudokirchneriella subcapitata (microalgae)): 310

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Toxicity to microorganisms : EC50 : 390 mg/l

Exposure time: 24 h Method: ISO 8192

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 51 mg/l

End point: Reproduction Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

GLP: yes

12.2 Persistence and degradability

Components:

benzyl alcohol:

Biodegradability : Test Type: aerobic

Result: Readily biodegradable. Biodegradation: 92 - 96 %

Exposure time: 14 d

Method: OECD Test Guideline 301C

12.3 Bioaccumulative potential

Components:

benzyl alcohol:

Bioaccumulation : Bioconcentration factor (BCF): 1.37

Partition coefficient: n-

octanol/water

log Pow: 1.05

Method: measured

according to Regulation (EC) No. 1907/2006

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12.4 Mobility in soil

Components:

benzyl alcohol:

Distribution among environmental compartments

Koc: 15.7

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

Components:

benzyl alcohol:

Assessment : This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT).. This substance is not considered to be

very persistent and very bioaccumulating (vPvB)..

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Annex should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product : The generation of waste should be avoided or minimised

wherever possible.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Dispose of contents/ container to an approved waste disposal

plant.

Contaminated packaging : The generation of waste should be avoided or minimised

wherever possible.

Where possible recycling is preferred to disposal or incinera-

tion.

Empty containers retain residue and can be dangerous.

according to Regulation (EC) No. 1907/2006

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SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Hazard and Handling Notes. Not dangerous cargo., Irritating to the eyes., Keep separated

from foodstuffs.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

Conditions of restriction for the following entries should be considered: Number on list 3

alpha-chlorotoluene (Number on list

72, 28)

International Chemical Weapons Convention (CWC)

Schedules of Toxic Chemicals and Precursors

: Not applicable

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH),

Article 57).

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parlia-

Not applicable

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ment and the Council concerning the export and import of dangerous chemicals

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Full text of other abbreviations

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; IECSC - 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; KECI - 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

according to Regulation (EC) No. 1907/2006

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The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.