SAFETY DATA SHEET

Version #: 07

Issue date: 08-04-2014 Revision date: 08-05-2023 Supersedes date: 07-09-2023

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

1.1. Product identifier

Trade name or designation

of the mixture

Synonyms SKU# Insulcast RTVS Primer 41 Blue

Registration number

None. IS154R

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

Identified usesNot available.Uses advised againstNone known.

1.3. Details of the supplier of the safety data sheet

Company Name ITW Performance Polymers

Address Bay 150

Shannon Industrial Estate

Co. Clare Ireland V14 DF82

Contact Person Customer Service
Telephone Number 353(61)771500

353(61)471285

Email customerservice.shannon@itwpp.com

Emergency Phone Number 44(0) 1235 239 670 (24 hours)

1.4. Emergency telephone number

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

Austria National Poisons

Information Center

+431 406 4343 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Belgium National Poisons

Control Center

070 245 245 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Bulgaria National

Toxicological Information

Center

+359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Croatia Poisons Information Center

+385 1 2348 342 (Hours of operation not provided. SDS/Product information may

not be available for the Emergency Service.)

Cyprus Poison Center 1401 (Available 24 hours a day. SDS/Product information may not be available

for the Emergency Service.)

Czech Republic National Poisons Information

Center

+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Denmark National Poisons

Control Center

+45 82 12 12 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Estonia National Poisons Information Center

16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be

available for the Emergency Service.)

Finland National Poison Information Center

(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

France National Poisons Control Center

ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Material name: Insulcast RTVS Primer 41 Blue

1.4. Emergency telephone number

Greece Poison Information Centre

(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not

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be available for the Emergency Service.)

Hungary National Emergency Phone Number +36-80-201-199 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Iceland Poison Center

(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Latvia Emergency medical

aid

Latvia Poison and Drug Information Center

+371 67042473 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Lithuania Neatidėliotina informacija apsinuodijus

+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Malta Accident and **Emergency Department**

2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Netherlands National Poisons Information Center (NVIC)

NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel

in cases of acute intoxications)

Norway Norwegian Poison Information Center

22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Portugal Poison Center

800 250 250 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Romania Biroul RSI si Informare Toxicologica 021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be

available for the Emergency Service.)

Slovakia National Toxicological Information Center

+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Spain Toxicology Information Service

+ 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Sweden National Poison Information Center

112 - and ask for Poison Information (Available 24 hours a day. SDS/Product

information may not be available for the Emergency Service.)

Switzerland Tox Info Suisse

145 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Flammable liquids Category 3 H226 - Flammable liquid and

vapor.

Health hazards

exposure

H332 - Harmful if inhaled. Acute toxicity, inhalation Category 4 Serious eye damage/eye irritation

Category 2 H319 - Causes serious eye

irritation.

Category 1B Germ cell mutagenicity H340 - May cause genetic defects.

Carcinogenicity H350 - May cause cancer. Category 1B Specific target organ toxicity - single Category 3 respiratory tract irritation H335 - May cause respiratory

irritation.

Category 1 H304 - May be fatal if swallowed

and enters airways.

Environmental hazards

Material name: Insulcast RTVS Primer 41 Blue

Aspiration hazard

Hazardous to the aquatic environment, Category 2 H411 - Toxic to aquatic life with

long-term aquatic hazard long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

UFI:

Austria: TG45-E1XF-W00G-W38P Belgium: TG45-E1XF-W00G-W38P Bulgaria: TG45-E1XF-W00G-W38P Croatia: TG45-E1XF-W00G-W38P Cyprus: TG45-E1XF-W00G-W38P

Czech Republic: TG45-E1XF-W00G-W38P
Denmark: TG45-E1XF-W00G-W38P
Estonia: TG45-E1XF-W00G-W38P
EU: TG45-E1XF-W00G-W38P
Finland: TG45-E1XF-W00G-W38P
France: TG45-E1XF-W00G-W38P
Germany: TG45-E1XF-W00G-W38P
Greece: TG45-E1XF-W00G-W38P
Hungary: TG45-E1XF-W00G-W38P
Iceland: TG45-E1XF-W00G-W38P
Ireland: TG45-E1XF-W00G-W38P

Ireland: TG45-E1XF-W00G-W38P Italy: TG45-E1XF-W00G-W38P Latvia: TG45-E1XF-W00G-W38P Lithuania: TG45-E1XF-W00G-W38P Luxembourg: TG45-E1XF-W00G-W38P Malta: TG45-E1XF-W00G-W38P Netherlands: TG45-E1XF-W00G-W38P Norway: TG45-E1XF-W00G-W38P Poland: TG45-E1XF-W00G-W38P

Portugal: TG45-E1XF-W00G-W38P Romania: TG45-E1XF-W00G-W38P Slovakia: TG45-E1XF-W00G-W38P Slovenia: TG45-E1XF-W00G-W38P Spain: TG45-E1XF-W00G-W38P Sweden: TG45-E1XF-W00G-W38P

Contains: butan-1-ol; n-butanol, ETHYL SILICATE POLYMER, Naphtha (petroleum), heavy straight-run;

Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C6

through C12 and boiling in, tetraethyl silicate; ethyl silicate

Hazard pictograms









Signal word Danger

Hazard statements

H226 Flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.
H340 May cause genetic defects.

H350 May cause cancer.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P201	Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P235 Keep cool.

P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing mist/vapors.
P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P370 + P378 In case of fire: Use appropriate media to extinguish.

P391 Collect spillage.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information 65,5% of the mixture consists of component(s) of unknown acute inhalation toxicity. 93% of the

mixture consists of component(s) of unknown acute hazards to the aquatic environment. 29% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a

concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Naphtha (petroleum), heavy straight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon number predominantly in the range of C6 through C12 and boiling in		64741-41-9 265-041-0	-	649-264-00-4	
Classification			1;H310;(ATE: 5 mg/kg bw),		
tetraethyl silicate; ethyl silicate	10 - 30	78-10-4 201-083-8	-	014-005-00-0	#
Classification	n: Flam. Liq. STOT SE		1;H332;(ATE: 11 mg/l), Eye	Irrit. 2;H319,	
butan-1-ol; n-butanol	1 - 5	71-36-3 200-751-6	-	603-004-00-6	
Classification		ye Dam. 1;H318, ST0	4;H302;(ATE: 500 mg/kg bw DT SE 3;H335;H336, Aquati		

ETHYL SILICATE POLYMER 1 - 5

1 - 5 11099-06-2 234-324-0

Classification: -

Other components below reportable

levels

e 3-7

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical

attention if irritation develops and persists.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and delayed Aspiration may cause pulmonary edema and pneumonitis. Dizziness. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation.

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

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards

Flammable liquid and vapor.

5.1. Extinguishing media
Suitable extinguishing
media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters
Special protective

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

equipment for firefighters Special fire fighting procedures

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

so without risk.

Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Ventilate closed spaces before entering them. Avoid breathing mist/vapors. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers.

Material name: Insulcast RTVS Primer 41 Blue

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist/vapors. Avoid contact with eyes. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- P5a, b or c FLAMMABLE LIQUIDS (Lower-tier requirements = 50 tons; Upper-tier requirements = 200 tons)
- E2 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 200 tons; Upper-tier requirements = 500 tons)

7.3. Specific end use(s)

Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance	e (GwV)	, BGBI. II, no.	184/2001, as amended
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Components	Туре	Value	
butan-1-ol; n-butanol (CAS 71-36-3)	MAK	150 mg/m3	
		50 ppm	
	STEL	600 mg/m3	
		200 ppm	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	Ceiling	88 mg/m3	
		10 ppm	
	MAK	44 mg/m3	
		5 ppm	

Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

Components	Туре	Value	
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	62 mg/m3	
		20 ppm	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3	
· · · · · · · · · · · · · · · · · · ·		5 nnm	

Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended

Components	Туре	Value	
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	150 mg/m3	
	TWA	100 mg/m3	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3	
		5 ppm	

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Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

Components	Type	Value	
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	154 mg/m3	
		50 ppm	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	MAC	44 mg/m3	
		5 ppm	

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended Components Type Value

Components	туре	value	
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	150 mg/m3	
		50 ppm	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	850 mg/m3	
		100 ppm	

Cyprus. OELs. Occupational Exposure Limit Values of Chemicals at Work (Safety and Health at Work (Chem. Agents) Reg., Ann. 1, R.A.A. 268/2001, as amended)

Components	Туре	Value	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3	
		5 ppm	

Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)

Components	Туре	Value
butan-1-ol; n-butanol (CAS 71-36-3)	Ceiling	600 mg/m3
	TWA	300 mg/m3
Naphtha (petroleum), heavy straight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in (CAS 64741-41-9)	Ceiling	1000 mg/m3
	TWA	200 mg/m3
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	Ceiling	176 mg/m3
	TWA	44 mg/m3

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2

Components	Туре	Value	
butan-1-ol; n-butanol (CAS 71-36-3)	Ceiling	150 mg/m3	
		50 ppm	
Naphtha (petroleum), heavy straight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in (CAS 64741-41-9)	TLV	25 ppm	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TLV	44 mg/m3	

Material name: Insulcast RTVS Primer 41 Blue

5 ppm

Estonia. OELs. Occupation Components	onal Exposure Limits of Hazardous S Type	ubstances (Regulation No. 105/2001, Annex), as amended Value
butan-1-ol; n-butanol (CAS 71-36-3)	S STEL	90 mg/m3
		30 ppm
	TWA	45 mg/m3
		15 ppm
Naphtha (petroleum), heavestraight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in (CAS 64741-41-6		300 mg/m3
		50 ppm
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3
		5 ppm
Finland. HTP-arvot, App Components	3., Binding Limit Values, Social Affair Type	s and Ministry of Health Value
butan-1-ol; n-butanol (CAS 71-36-3)	S STEL	230 mg/m3
·		75 ppm
	TWA	150 mg/m3
		50 ppm
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	STEL	86 mg/m3
		10 ppm
	TWA	43 mg/m3
		5 ppm
France. OELs. Indicative Components	Occupational Exposure Limits as Pre Type	escribed by Order of 30 June 2004, as amended Value
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	VME	44 mg/m3
		5 ppm
France. Threshold Limit Components	Values (VLEP) for Occupational Expo Type	sure to Chemicals in France, INRS ED 984 Value
butan-1-ol; n-butanol (CAS 71-36-3)	S VLE	150 mg/m3
Regulatory status:	Indicative limit (VL)	50 ppm
Regulatory status:	Indicative limit (VL)	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	VME	44 mg/m3
Regulatory status:	Regulatory indicative (VRI)	5 ppm
Regulatory status:	Regulatory indicative (VRI)	O PPIIII

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as undated

Components	Туре	Value	Form
utan-1-ol; n-butanol (CAS	TWA	310 mg/m3	
(1-36-3)		100 ppm	
etraethyl silicate; ethyl	TWA	86 mg/m3	Inhalable fraction.
ilicate (CAS 78-10-4)		10 ppm	Inhalable fraction.
Germany. TRGS 900, Limit Values	in the Ambient Air at the Wor	kplace	
Components	Туре	Value	
outan-1-ol; n-butanol (CAS /1-36-3)	AGW	310 mg/m3	
		100 ppm	
etraethyl silicate; ethyl illicate (CAS 78-10-4)	AGW	12 mg/m3	
		1,4 ppm	
Greece. OELs, Presidential Decree			
Components	Туре	Value	
outan-1-ol; n-butanol (CAS 71-36-3)	STEL	300 mg/m3	
		100 ppm	
	TWA	300 mg/m3	
		100 ppm	
etraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3	
		5 ppm	
Hungary. OELs. Decree on protect			Annex 1&2, as amended
Components	Туре	Value	
outan-1-ol; n-butanol (CAS /1-36-3)	STEL	90 mg/m3	
. 66 6)		45 / 0	
	TWA	45 mg/m3	
etraethyl silicate; ethyl	TWA TWA	45 mg/m3 44 mg/m3	
etraethyl silicate; ethyl silicate (CAS 78-10-4) celand. OELs. Regulation 390/200	TWA 9 on Pollution Limits and Mea	44 mg/m3	t the Workplace, as amend
etraethyl silicate; ethyl silicate (CAS 78-10-4) celand. OELs. Regulation 390/200 Components	TWA 9 on Pollution Limits and Mea Type	44 mg/m3 asures to Reduce Pollution a Value	t the Workplace, as amend
etraethyl silicate; ethyl silicate (CAS 78-10-4) celand. OELs. Regulation 390/200 Components outan-1-ol; n-butanol (CAS	TWA 9 on Pollution Limits and Mea	44 mg/m3	t the Workplace, as amend
etraethyl silicate; ethyl silicate (CAS 78-10-4) celand. OELs. Regulation 390/200 Components outan-1-ol; n-butanol (CAS	TWA 9 on Pollution Limits and Mea Type STEL	44 mg/m3 asures to Reduce Pollution a Value	t the Workplace, as amen
etraethyl silicate; ethyl silicate (CAS 78-10-4) celand. OELs. Regulation 390/200 Components outan-1-ol; n-butanol (CAS	TWA 9 on Pollution Limits and Mea Type	44 mg/m3 asures to Reduce Pollution a Value 150 mg/m3	t the Workplace, as amend
etraethyl silicate; ethyl silicate (CAS 78-10-4) celand. OELs. Regulation 390/200 Components outan-1-ol; n-butanol (CAS	TWA 9 on Pollution Limits and Mea Type STEL	44 mg/m3 asures to Reduce Pollution a Value 150 mg/m3 50 ppm	t the Workplace, as amend
tetraethyl silicate; ethyl silicate (CAS 78-10-4) lceland. OELs. Regulation 390/200 Components outan-1-ol; n-butanol (CAS 71-36-3)	TWA 9 on Pollution Limits and Mea Type STEL	44 mg/m3 asures to Reduce Pollution a Value 150 mg/m3 50 ppm 80 mg/m3	t the Workplace, as amen
etraethyl silicate; ethyl silicate (CAS 78-10-4) celand. OELs. Regulation 390/200 Components outan-1-ol; n-butanol (CAS 71-36-3)	TWA 9 on Pollution Limits and Mea Type STEL TWA	44 mg/m3 asures to Reduce Pollution a Value 150 mg/m3 50 ppm 80 mg/m3 25 ppm	t the Workplace, as amend
etraethyl silicate; ethyl silicate (CAS 78-10-4) celand. OELs. Regulation 390/200 Components outan-1-ol; n-butanol (CAS 71-36-3) etraethyl silicate; ethyl silicate (CAS 78-10-4) reland. OELVs, Schedules 1 & 2, 6	TWA 9 on Pollution Limits and Mea Type STEL TWA TWA TWA Code of Practice for Chemical	44 mg/m3 asures to Reduce Pollution a Value 150 mg/m3 50 ppm 80 mg/m3 25 ppm 44 mg/m3 5 ppm	
etraethyl silicate; ethyl silicate (CAS 78-10-4) celand. OELs. Regulation 390/200 Components outan-1-ol; n-butanol (CAS 71-36-3) etraethyl silicate; ethyl silicate (CAS 78-10-4) reland. OELVs, Schedules 1 & 2, 6	TWA 9 on Pollution Limits and Mea Type STEL TWA TWA	44 mg/m3 asures to Reduce Pollution a Value 150 mg/m3 50 ppm 80 mg/m3 25 ppm 44 mg/m3 5 ppm	
etraethyl silicate; ethyl silicate (CAS 78-10-4) celand. OELs. Regulation 390/200 Components outan-1-ol; n-butanol (CAS 71-36-3) etraethyl silicate; ethyl silicate (CAS 78-10-4) reland. OELVs, Schedules 1 & 2, 0 Components outan-1-ol; n-butanol (CAS	TWA 9 on Pollution Limits and Mea Type STEL TWA TWA TWA Code of Practice for Chemical	44 mg/m3 asures to Reduce Pollution a Value 150 mg/m3 50 ppm 80 mg/m3 25 ppm 44 mg/m3 5 ppm	
retraethyl silicate; ethyl silicate (CAS 78-10-4) celand. OELs. Regulation 390/200 Components cutan-1-ol; n-butanol (CAS 71-36-3) retraethyl silicate; ethyl silicate (CAS 78-10-4) reland. OELVs, Schedules 1 & 2, 0 Components cutan-1-ol; n-butanol (CAS 71-36-3) retraethyl silicate; ethyl	TWA 9 on Pollution Limits and Mea Type STEL TWA TWA TWA Code of Practice for Chemical Type	44 mg/m3 asures to Reduce Pollution a Value 150 mg/m3 50 ppm 80 mg/m3 25 ppm 44 mg/m3 5 ppm 1 Agents and Carcinogens Revalue	
tetraethyl silicate; ethyl silicate (CAS 78-10-4) lceland. OELs. Regulation 390/200 Components outan-1-ol; n-butanol (CAS 71-36-3) tetraethyl silicate; ethyl silicate (CAS 78-10-4) lreland. OELVs, Schedules 1 & 2, 0 Components outan-1-ol; n-butanol (CAS 71-36-3) tetraethyl silicate; ethyl silicate; ethyl silicate (CAS 71-36-3)	9 on Pollution Limits and Mea Type STEL TWA TWA Code of Practice for Chemical Type TWA	44 mg/m3 asures to Reduce Pollution a Value 150 mg/m3 50 ppm 80 mg/m3 25 ppm 44 mg/m3 5 ppm 1 Agents and Carcinogens Revalue 20 ppm	
retraethyl silicate; ethyl silicate (CAS 78-10-4) celand. OELs. Regulation 390/200 Components cutan-1-ol; n-butanol (CAS 71-36-3) retraethyl silicate; ethyl silicate (CAS 78-10-4) reland. OELVs, Schedules 1 & 2, 6 Components cutan-1-ol; n-butanol (CAS 71-36-3) retraethyl silicate; ethyl silicate (CAS 78-10-4)	9 on Pollution Limits and Mea Type STEL TWA TWA Code of Practice for Chemical Type TWA TWA	44 mg/m3 asures to Reduce Pollution a Value 150 mg/m3 50 ppm 80 mg/m3 25 ppm 44 mg/m3 5 ppm I Agents and Carcinogens Revalue 20 ppm 44 mg/m3	
tetraethyl silicate; ethyl silicate (CAS 78-10-4) Iceland. OELs. Regulation 390/200 Components butan-1-ol; n-butanol (CAS 71-36-3) Itetraethyl silicate; ethyl silicate (CAS 78-10-4) Ireland. OELVs, Schedules 1 & 2, 0 Components butan-1-ol; n-butanol (CAS 71-36-3) Itetraethyl silicate; ethyl silicate (CAS 78-10-4) Itetraethyl silicate; ethyl silicate (CAS 78-10-4) Italy. OELs (Legislative Decree n.8) Components	9 on Pollution Limits and Mea Type STEL TWA TWA Code of Practice for Chemical Type TWA TWA	44 mg/m3 asures to Reduce Pollution a Value 150 mg/m3 50 ppm 80 mg/m3 25 ppm 44 mg/m3 5 ppm I Agents and Carcinogens Revalue 20 ppm 44 mg/m3	

Italy. OELs (Legislative Decree n.81, 9 April 2008), as amended Value Components **Type** tetraethyl silicate; ethyl **TWA** 44 mg/m3 silicate (CAS 78-10-4)

5 ppm

Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended

Components	Туре	Value	
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	10 mg/m3	
Naphtha (petroleum), heavy straight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in (CAS 64741-41-9)	TWA	10 mg/m3	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3	
		5 ppm	

Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended

Components	Туре	Value	
butan-1-ol; n-butanol (CAS 71-36-3)	Ceiling	90 mg/m3	
		30 ppm	
	TWA	45 mg/m3	
		15 ppm	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3	
		5 ppm	

Luxembourg. OELs. Binding Occupational Exposure Limit Values (Annex I), G.D.R. of 14 November 2016, OJ Memorial A, n ° 235/2016, as amended

Components	Туре	Value	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3	
		5 ppm	

Malta. OELs. Protection of Health and Safety of Workers from Risks related to Chemical Agents at Work (L.N 227/2003 Schedules I and V), as amended

Components	Туре	Value	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3	
		5 ppm	

Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant no. 252, 29 December 2006), as amended

Components	Туре	Value	
tetraethyl silicate; ethyl	TWA	44 mg/m3	
silicate (CAS 78-10-4)			

Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended

Components	Туре	Value
butan-1-ol; n-butanol (CAS 71-36-3)	Ceiling	75 mg/m3
		25 ppm

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Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended

Components	Type	Value	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TLV	44 mg/m3	
		5 ppm	

Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)

Components	Туре	Value	
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	150 mg/m3	
	TWA	50 mg/m3	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3	

Portugal. Decree-Law No. 24/2012, Occupational Exposure Limit Values, Annex II, as amended Components Type Value

tetraethyl silicate; ethyl TWA 44 mg/m3 silicate (CAS 78-10-4)

5 ppm

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014)

Components	Туре	Value	
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	20 ppm	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	10 ppm	

Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)

Components	Туре	Value	Form
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	200 mg/m3	
		66 ppm	
	TWA	100 mg/m3	
		33 ppm	
Naphtha (petroleum), heavy straight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in (CAS 64741-41-9)	STEL	200 mg/m3	
-	TWA	100 mg/m3	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3	Gaseous and vapor
		5 ppm	Gaseous and vapor

Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)

Components	Туре	Value	
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	310 mg/m3	
		100 ppm	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3	
		5 ppm	

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended

Components	Туре	Value	
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	310 mg/m3	
		100 ppm	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3	
		5 ppm	

Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)

Components	Туре	Value	
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	154 mg/m3	
		50 ppm	
	TWA	61 mg/m3	
		20 ppm	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3	
		5 ppm	

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

amended			
Components	Туре	Value	
butan-1-ol; n-butanol (CAS 71-36-3)	Ceiling	90 mg/m3	
		30 ppm	
	TWA	45 mg/m3	
		15 ppm	
Naphtha (petroleum), heavy straight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in (CAS 64741-41-9)	STEL	300 mg/m3	
		50 ppm	
	TWA	150 mg/m3	
		25 ppm	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	Ceiling	86 mg/m3	
		10 ppm	
	TWA	44 mg/m3	
		5 ppm	
Switzerland. SUVA Grenzwerte am	n Arbeitsplatz: Aktuelle MAK-We	rte	
Components	Туре	Value	
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	310 mg/m3	
		100 ppm	

310 mg/m3 100 ppm

TWA

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Туре	Value	
Naphtha (petroleum), heavy straight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in (CAS 64741-41-9)	TWA	1100 mg/m3	
		300 ppm	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3	
		5 ppm	

UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1 Components Type Value

· · · · · · · · · · · · · · · · · ·	. 71-		
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	154 mg/m3	
		50 ppm	
tetraethyl silicate; ethyl silicate (CAS 78-10-4)	TWA	44 mg/m3	
		5 ppm	

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU Components Type Value

tetraethyl silicate; ethyl TWA 44 mg/m3 silicate (CAS 78-10-4)

5 ppm

Biological limit values

Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling Time
butan-1-ol; n-butanol (CAS 71-36-3)	2 mg/g	1-Butanol (nach Hydrolyse)	Urine	*
	10 mg/g	1-Butanol (nach Hydrolyse)	Urine	*

^{* -} For sampling details, please see the source document.

Hungary. BELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 3&4, as amended Components Value Determinant Specimen Sampling Time

Components	Value	Determinant	Specimen	Sampling Time	
butan-1-ol; n-butanol (CAS 71-36-3)	3 μmol/mmol	n-butyl alcohol (with hydrolysis)	Creatinine in urine	*	
	15 μmol/mmol	n-butyl alcohol (with hydrolysis)	Creatinine in urine	*	
	2 mg/g	n-butyl alcohol (with hydrolysis)	Creatinine in urine	*	
	10 mg/g	n-butyl alcohol (with hydrolysis)	Creatinine in urine	*	

^{* -} For sampling details, please see the source document.

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents. Annex 2

Components	Value	Determinant	Specimen	Sampling Time
butan-1-ol; n-butanol (CAS 71-36-3)	2 mg/g	n-butyl alcohol	Creatinine in urine	*

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2

Components	Value	Determinant	Specimen	Sampling Time	
	10 mg/g	n-butyl alcohol	Creatinine in urine	*	

^{* -} For sampling details, please see the source document.

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte
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Components	Value	Determinant	Specimen	
butan-1-ol; n-butanol (CAS 71-36-3)	2 mg/g	n-Butanol	Creatinine in urine	
	10 mg/g	n-Butanol	Creatinine in urine	*

^{* -} For sampling details, please see the source document.

Recommended monitoring

Follow standard monitoring procedures.

procedures

Derived no effect levels

(DNELs)

Not available.

Predicted no effect

concentrations (PNECs)

Not available.

Exposure guidelines

Belgium OELs: Skin designation

butan-1-ol; n-butanol (CAS 71-36-3) Can be absorbed through the skin.

Croatia ELVs: Skin designation

butan-1-ol; n-butanol (CAS 71-36-3) Can be absorbed through the skin.

Cyprus OEL: Skin designation

butan-1-ol; n-butanol (CAS 71-36-3) Can be absorbed through the skin.

Denmark GV: Skin designation

butan-1-ol; n-butanol (CAS 71-36-3) Can be absorbed through the skin.

Estonia OELs: Skin designation

butan-1-ol; n-butanol (CAS 71-36-3) Can be absorbed through the skin.

Finland Exposure Limit Values: Skin designation

butan-1-ol; n-butanol (CAS 71-36-3) Can be absorbed through the skin.

Greece OEL: Skin designation

butan-1-ol; n-butanol (CAS 71-36-3) Can be absorbed through the skin.

Hungary OELs: Skin designation

butan-1-ol; n-butanol (CAS 71-36-3) Can be absorbed through the skin.

Iceland OELs: Skin designation

butan-1-ol; n-butanol (CAS 71-36-3) Can be absorbed through the skin.

Lithuania OELs: Skin designation

butan-1-ol; n-butanol (CAS 71-36-3) Can be absorbed through the skin.

Norway Exposure Limit Values: Skin designation

butan-1-ol; n-butanol (CAS 71-36-3) Can be absorbed through the skin.

Romania OELs: Skin designation

Naphtha (petroleum), heavy straight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in

the range of C6 through C12 and boiling in

(CAS 64741-41-9)

Sweden Threshold Limit Values: Skin designation

butan-1-ol; n-butanol (CAS 71-36-3) Can be absorbed through the skin.

UK EH40 WEL: Skin designation

butan-1-ol; n-butanol (CAS 71-36-3) Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Can be absorbed through the skin.

Individual protection measures, such as personal protective equipment

General informationUse personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

eauipment

Eye/face protection

Skin protection

Chemical respirator with organic vapor cartridge and full facepiece.

- Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Observe any medical surveillance requirements. When using do not smoke. Always observe good

personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid.
Form Liquid.

ColorClear. or BlueOdorPetroleum-likeMelting point/freezing pointNot available.

Boiling point or initial boiling point and boiling range

> 240 - < 278 °F (> 115,56 - < 136,67 °C)

Flammability
Not applicable.
Flash point
84,0 °F (28,9 °C)
Auto-ignition temperature
Not available.
pH
Not available.
Not available.

Kinematic viscosity No

Solubility

Not available.

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water) (log value)

Vapor pressure 45 mm Hg

Density and/or relative density

Density6,92 lb/galVapor densityNot available.Particle characteristicsNot available.

9.2. Other information

9.2.1. Information with regard No relevant additional information available. **to physical hazard classes**

9.2.2. Other safety characteristics

Evaporation rate 1,6 BuAc **Specific gravity** 0,83

VOC > 75 - < 100 %

SECTION 10: Stability and reactivity

10.1. ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stabilityMaterial is stable under normal conditions.

10.3. Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

10.4. Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous

No hazardous decomposition products are known.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes serious eye irritation.

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms Aspiration may cause pulmonary edema and pneumonitis. Dizziness. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause

respiratory irritation.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

May be fatal if swallowed and enters airways. Harmful if inhaled.

Components

Species

Test Results

butan-1-ol; n-butanol (CAS 71-36-3)

Acute Dermal

LD50 Rabbit 3400 mg/kg

Naphtha (petroleum), heavy straight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in (CAS 64741-41-9)

Acute Dermal

LD50 Rabbit > 5 mg/kg

tetraethyl silicate; ethyl silicate (CAS 78-10-4)

Acute Dermal

LD50 Rabbit 5878 mg/kg

Oral

LD50 Rat 6270 mg/kg

Skin corrosion/irritationDue to partial or complete lack of data the classification is not possible.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitizationDue to partial or complete lack of data the classification is not possible. **Skin sensitization**Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity May cause genetic defects.

Poland. Order concerning carcinogenic and mutagenic substances in the workplace, as amended

Naphtha (petroleum), heavy straight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in

hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in

(CAS 64741-41-9)

Carcinogenicity May cause cancer.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Naphtha (petroleum), heavy straight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in (CAS 64741-41-9)

Mutagenic, Category 1B.

Reproductive toxicityDue to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

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Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

May be fatal if swallowed and enters airways. **Aspiration hazard**

Mixture versus substance

information

No information available.

11.2. Information on other hazards

Endocrine disrupting

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than

0.1% by weight.

Other information Not available.

SECTION 12: Ecological information

Toxic to aquatic life with long lasting effects. Based on available data, the classification criteria are 12.1. Toxicity

not met for hazardous to the aquatic environment, acute hazard.

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

butan-1-ol; n-butanol 0,88 tetraethyl silicate; ethyl silicate 0,04

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than

0.1% by weight.

12.7. Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. **Special precautions**

SECTION 14: Transport information

ADR

UN1263 14.1. UN number Paint 14.2. UN proper shipping

14.3. Transport hazard class(es)

Class 3 Subsidiary risk Label(s) 3 Hazard No. (ADR) 30

Tunnel restriction code Not assigned.

14.4. Packing group Ш 14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

Material name: Insulcast RTVS Primer 41 Blue IS154R Version #: 07 Revision date: 08-05-2023 Issue date: 08-04-2014

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14.1. UN number UN1263 14.2. UN proper shipping Paint 14.3. Transport hazard class(es) Class 3 Subsidiary risk 3 Label(s) 14.4. Packing group Ш 14.5. Environmental hazards No. Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user **ADN** UN1263 14.1. UN number 14.2. UN proper shipping Paint 14.3. Transport hazard class(es) 3 Class Subsidiary risk 3 Label(s) 14.4. Packing group Ш 14.5. Environmental hazards No. 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user **IATA** 14.1. UN number UN1263 14.2. UN proper shipping Paint name 14.3. Transport hazard class(es) 3 Class Subsidiary risk Ш 14.4. Packing group 14.5. Environmental hazards No. 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user Other information Passenger and cargo Allowed with restrictions. aircraft Allowed with restrictions. Cargo aircraft only **IMDG** 14.1. UN number UN1263 14.2. UN proper shipping Paint name 14.3. Transport hazard class(es) 3 Class Subsidiary risk 14.4. Packing group Ш 14.5. Environmental hazards Marine pollutant No. F-E. S-E **EmS** Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions

for user

14.7. Maritime transport in bulk according to IMO instruments

Not established.

Material name: Insulcast RTVS Primer 41 Blue



SECTION 15: Regulatory information

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

UFI:

Austria: TG45-E1XF-W00G-W38P Belgium: TG45-E1XF-W00G-W38P Bulgaria: TG45-E1XF-W00G-W38P Croatia: TG45-E1XF-W00G-W38P Cyprus: TG45-E1XF-W00G-W38P Czech Republic: TG45-E1XF-W00G-W38P

Denmark: TG45-E1XF-W00G-W38P
Estonia: TG45-E1XF-W00G-W38P
EU: TG45-E1XF-W00G-W38P
Finland: TG45-E1XF-W00G-W38P
France: TG45-E1XF-W00G-W38P
Germany: TG45-E1XF-W00G-W38P
Greece: TG45-E1XF-W00G-W38P
Hungary: TG45-E1XF-W00G-W38P
Iceland: TG45-E1XF-W00G-W38P
Ireland: TG45-E1XF-W00G-W38P
Italy: TG45-E1XF-W00G-W38P
Latvia: TG45-E1XF-W00G-W38P
Lithuania: TG45-E1XF-W00G-W38P
Luxembourg: TG45-E1XF-W00G-W38P
Malta: TG45-E1XF-W00G-W38P

Malta: TG45-E1XF-W00G-W38P Netherlands: TG45-E1XF-W00G-W38P Norway: TG45-E1XF-W00G-W38P Poland: TG45-E1XF-W00G-W38P Portugal: TG45-E1XF-W00G-W38P Romania: TG45-E1XF-W00G-W38P Slovakia: TG45-E1XF-W00G-W38P Slovenia: TG45-E1XF-W00G-W38P Spain: TG45-E1XF-W00G-W38P

Spain: TG45-E1XF-W00G-W38P Sweden: TG45-E1XF-W00G-W38P

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered

butan-1-ol; n-butanol (CAS 71-36-3) 75 tetraethyl silicate; ethyl silicate (CAS 78-10-4) 75

Naphtha (petroleum), heavy straight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in (CAS 64741-41-9)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Naphtha (petroleum), heavy straight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in (CAS 64741-41-9)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- P5a, b or c FLAMMABLE LIQUIDS

- E2 Hazardous to the Aquatic Environment Chronic

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in accordance with Directive 2004/37/EC, as amended.

France regulations

France INRS Table of Occupational Diseases

butan-1-ol; n-butanol (CAS 71-36-3)

Naphtha (petroleum), heavy straight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in (CAS 64741-41-9)

Affections engendrées par les solvants organiques liquides à usage professionnel : hydrocarbures liquides aliphatiques ou cycliques saturés ou insaturés et leurs mélanges; hydrocarbures halogénés liquides; dérivés nitrés des hydrocarbures aliphatiques; al 84

Affections cutanées ou affections des muqueuses provoquées par les goudrons de houille, les huiles de houille (comprenant les fractions de distillation dites phénoliques, naphtaléniques, acénaphténiques, anthracéniques et chryséniques), les brais de houil 16

Product registration number

Austria UFI: TG45-E1XF-W00G-W38P **Belgium** UFI: TG45-E1XF-W00G-W38P **Czech Republic** UFI: TG45-E1XF-W00G-W38P **Denmark** UFI: TG45-E1XF-W00G-W38P **European Union** UFI: TG45-E1XF-W00G-W38P UFI: TG45-E1XF-W00G-W38P **Finland France** UFI: TG45-E1XF-W00G-W38P Germany UFI: TG45-E1XF-W00G-W38P UFI: TG45-E1XF-W00G-W38P Greece UFI: TG45-E1XF-W00G-W38P Hungary Italy UFI: TG45-E1XF-W00G-W38P **Netherlands** UFI: TG45-E1XF-W00G-W38P UFI: TG45-E1XF-W00G-W38P **Norway** UFI: TG45-E1XF-W00G-W38P **Poland Portugal** UFI: TG45-E1XF-W00G-W38P UFI: TG45-E1XF-W00G-W38P Slovakia Slovenia UFI: TG45-E1XF-W00G-W38P **Spain** UFI: TG45-E1XF-W00G-W38P UFI: TG45-E1XF-W00G-W38P Sweden **Switzerland** UFI: TG45-E1XF-W00G-W38P

15.2. Chemical safety

No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany).

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value.

vPvB: Very persistent and very bioaccumulative.

References

Information on evaluation method leading to the classification of mixture

Full text of any statements, which are not written out in full under sections 2 to 15

Not available.

The classification for health and environmental hazards is derived by a combination of calculation methods and test data. if available.

H224 Extremely flammable liquid and vapor.

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H310 Fatal in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H340 May cause genetic defects.

H350 May cause cancer.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. Physical & Chemical Properties: Multiple Properties

Revision information Training information

Disclaimer

Follow training instructions when handling this material.

ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.