

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

Fix-In Surface activator

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

1.1. Product identifier

Product name:Registration number REACH:Product type REACH:

: Fix-In Surface activator : Not applicable (mixture)

: Mixture

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

1.2.1 Relevant identified uses

AGC FIX-IN SA is a special adhesion activator to be used on AGC's safety backing foils prior to applying FIX-IN SL. It will also clean and degrease the bonding surfaces

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

AGC Glass Europe Headquarters Avenue Jean Monnet 4 B-1348 Louvain-la-Neuve ☎ +32 2 409 30 00 ➡ +32 2 672 44 62 msds@eu.agc.com

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):

+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

 Classified as danger	ous according to the c	riteria of Regulation (EC) No 1272/2008
Class	Category	Hazard statements
Flam. Liq.	category 2	H225: Highly flammable liquid and vapour.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
STOT SE	category 3	H336: May cause drowsiness or dizziness.

2.2. Label elements



Contains: propan-2-ol.	
Signal word	Danger
H-statements	
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
P-statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves and eye protection/face protection.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.
2.3. Other hazards	
May build up electrostatic	charges: risk of ignition
Gas/vapour spreads at floo	
	-

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be © BIG vzw Reason for revision: 2;3 Revision number: 302 Publication date: 2011-05-03 Date of revision: 2017-01-20 134-16484-635-en

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
propan-2-ol 01-2119457558-25	67-63-0 200-661-7	C>25 %	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
titanium tetraisopropanolate 01-2119967389-17	546-68-9 208-909-6	1% <c<20%< td=""><td>Flam. Liq. 3; H226 Eye Irrit. 2; H319 STOT SE 3: H336</td><td>(1)(10)</td><td>Constituent</td></c<20%<>	Flam. Liq. 3; H226 Eye Irrit. 2; H319 STOT SE 3: H336	(1)(10)	Constituent

(1) For H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Apply a moist gauze patch.

After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Give activated charcoal. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the respiratory tract. Dry/sore throat. Central nervous system depression. Dizziness. Headache. After skin contact:

Not irritating.

After eye contact: Irritation of the eye tissue.

After increases

After ingestion:

AFTER INGESTION OF HIGH QUANTITIES: Central nervous system depression. Disturbed motor response. Headache. Disturbances of consciousness. Dilation of the blood vessels. Low arterial pressure. Vomiting. Nausea. Abdominal pain. FOLLOWING SYMPTOMS MAY APPEAR LATER: Body temperature fall. Slowing respiration.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher. Major fire: Class B foam (alcohol-resistant), Water spray if puddle cannot expand.

5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion. Major fire: Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

5.3.1 Instructions:

Reason for revision: 2;3

If exposed to fire cool the closed containers by spraying with water. Do not move the load if exposed to heat.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective goggles. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders Gloves. Protective goggles. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Contain released product. Dam up the liquid spill. Try to reduce evaporation. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material, e.g.: dry sand/earth/vermiculite or powdered limestone. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Insufficient ventilation: keep naked flames/sparks away. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards. Remove contaminated clothing immediately. Do not discharge the waste into the drain. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Store in a cool area. Store in a dry area. Ventilation at floor level. Fireproof storeroom. Provide for an automatic sprinkler system. May be stored under nitrogen. Store at room temperature. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

Heat sources, ignition sources, oxidizing agents, (strong) acids, (strong) bases, halogens.

7.2.3 Suitable packaging material:

Tin.

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

Belgium

Alcool isopropylique	Time-weighted average exposure limit 8 h	200 ppm
	Time-weighted average exposure limit 8 h	500 mg/m³
	Short time value	400 ppm
	Short time value	1000 mg/m³

 France
Alcool isopropylique

Alcool isopropylique	Short time value (VL: Valeur non réglementaire indicative)	400 ppm
	Short time value (VL: Valeur non réglementaire indicative)	980 mg/m³
Germany		
Propan-2-ol	Time-weighted average exposure limit 8 h (TRGS 900)	200 ppm
		500 / 3
	Time-weighted average exposure limit 8 h (TRGS 900)	500 mg/m ³
UK	Time-weighted average exposure limit 8 h (TRGS 900)	1500 mg/m ³
	Time-weighted average exposure limit 8 h (TRGS 900) Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	400 ppm
UK Propan-2-ol revision: 2;3	Time-weighted average exposure limit 8 h (Workplace exposure limit	

Reason f

Propan-2-ol				me-weighted average exp H40/2005))	osure limit 8 h (Work	place exposure limit	999 mg/m ³
				ort time value (Workplac	,	· //	500 ppm
			Sho	ort time value (Workplac	e exposure limit (EH40	0/2005))	1250 mg/m ³
USA (TLV-ACGIH)							
2-propanol				ne-weighted average exp ort time value (TLV - Ado		Adopted Value)	200 ppm 400 ppm
b) National biological limit values of limit values are applicable and a open content of the second seco	_	e these will be	listed below	Ν.			
Germany Propan-2-ol (Aceton)			ioncondo h	zw. schichtende	25 mg/l	11/2012 Ständige	Canatskommissi
Propan-2-or (Aceton)		Unn: expositi	offserice, o	ZW. Schichlende		Prüfung gesundhe Arbeitsstoffe der I	itsschädlicher
Propan-2-ol (Aceton)		Vollblut: expo	ositionsend	e, bzw. schichtende	25 mg/l	11/2012 Ständige Prüfung gesundhe Arbeitsstoffe der I	Senatskommissi itsschädlicher
Vitamin K-Antagonisten (Quick-W	/ert)	Vollblut: kein	e beschrän	kung	Reduktion auf nicht weniger als 70%	11/2012 Ständige Prüfung gesundhe Arbeitsstoffe der I	Senatskommissi itsschädlicher
USA (BEI-ACGIH)		4				•	
2-Propanol (Acetone)		Urine: end of	shift at end	d of workweek	40 mg/L		
2 Sampling methods		J					
Product name				Test	Number		
Isopropanol (Volatile Organic com	npounds	s)		NIOSH	2549		
Isopropyl Alcohol (Alcohols I) Isopropyl Alcohol				NIOSH OSHA	1400 109	———————————————————————————————————————	
3 Applicable limit values when u	·	••••••	•••		103]	
4 Threshold values DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL)		e these will be pe	listed belov	N.	Value	Remark	
DNEL/DMEL - Workers propan-2-ol	Ty Loi	pe ng-term systen	nic effects in	nhalation	500 mg/m ³		
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL	Ty Loi	pe	nic effects in	nhalation			
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Litanium tetraisopropanolate	Ty Loi Loi	pe ng-term systen ng-term systen	nic effects in	nhalation	500 mg/m ³		
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL	Ty Loi Loi Ty	pe ng-term systen ng-term systen	nic effects in nic effects d	nhalation dermal	500 mg/m ³ 888 mg/kg bw/day	4	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Litanium tetraisopropanolate Effect level (DNEL/DMEL) DNEL DNEL- General population	Ty Loi Loi Ty Loi	pe ng-term systen ng-term systen pe	nic effects in nic effects d	nhalation dermal	500 mg/m ³ 888 mg/kg bw/day Value	4	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL titanium tetraisopropanolate Effect level (DNEL/DMEL) DNEL DNEL DNEL- General population propan-2-ol	Tyj Loi Loi Loi Loi 1	pe ng-term systen ng-term systen pe ng-term systen	nic effects in nic effects d	nhalation dermal	500 mg/m ³ 888 mg/kg bw/day Value 500 mg/m ³	e Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Litanium tetraisopropanolate Effect level (DNEL/DMEL) DNEL DNEL DNEL/DMEL - General population propan-2-ol Effect level (DNEL/DMEL)	Tyj Loi Loi Tyj 1	pe ng-term systen ng-term systen ng-term systen pe	nic effects in nic effects c nic effects i	nhalation dermal nhalation	500 mg/m ³ 888 mg/kg bw/day Value 500 mg/m ³	4	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL titanium tetraisopropanolate Effect level (DNEL/DMEL) DNEL DNEL DNEL- General population propan-2-ol	Tyi Lor Lor Lor Lor Lor <u>Tyi</u> Lor Lor	pe ng-term systen ng-term systen ng-term systen pe ng-term systen	nic effects in nic effects c nic effects in nic effects in	nhalation dermal nhalation nhalation	500 mg/m ³ 888 mg/kg bw/day Value 500 mg/m ³ Value 89 mg/m ³	Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Litanium tetraisopropanolate Effect level (DNEL/DMEL) DNEL DNEL DNEL/DMEL - General population propan-2-ol Effect level (DNEL/DMEL)	Tyj Loi Loi Loi Loi 1 Loi Loi Loi	pe ng-term systen ng-term systen ng-term systen pe	nic effects in nic effects of nic effects in nic effects in nic effects of	nhalation dermal nhalation nhalation dermal	500 mg/m ³ 888 mg/kg bw/day Value 500 mg/m ³	Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL DNEL DNEL DNEL DNEL Effect level (DNEL/DMEL) Effect level (DNEL/DMEL) DNEL DNEL	Tyj Loi Loi Loi Loi 1 Loi Loi Loi	pe ng-term systen ng-term systen ng-term systen ng-term systen ng-term systen	nic effects in nic effects of nic effects in nic effects in nic effects of	nhalation dermal nhalation nhalation dermal	500 mg/m ³ 888 mg/kg bw/day Value 500 mg/m ³ Value 89 mg/m ³ 319 mg/kg bw/day	Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Litanium tetraisopropanolate Effect level (DNEL/DMEL) DNEL DNEL/DMEL - General population propan-2-ol Effect level (DNEL/DMEL) DNEL	Tyj Loi Loi Loi Loi 1 Loi Loi Loi	pe ng-term systen pe ng-term systen ng-term systen ng-term systen ng-term systen	nic effects in nic effects of nic effects in nic effects in nic effects of	nhalation dermal nhalation nhalation dermal	500 mg/m ³ 888 mg/kg bw/day Value 500 mg/m ³ Value 89 mg/m ³ 319 mg/kg bw/day	/ Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL titanium tetraisopropanolate Effect level (DNEL/DMEL) DNEL DNEL DNEL/DMEL - General population propan-2-ol Effect level (DNEL/DMEL) DNEL DNEL PNEC propan-2-ol	Tyj Loi Loi Loi Loi 1 Loi Loi Loi	pe ng-term systen ng-term systen ng-term systen ng-term systen ng-term systen	nic effects in nic effects of nic effects in nic effects in nic effects of nic effects of	nhalation dermal nhalation nhalation dermal	500 mg/m³ 888 mg/kg bw/day Value 500 mg/m³ Value 89 mg/m³ 319 mg/kg bw/day 26 mg/kg bw/day	/ Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL DNEL DNEL DNEL Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL PNEC propan-2-ol Engenter Compartments	Tyj Loi Loi Loi Loi 1 Loi Loi Loi	pe ng-term systen ng-term systen ng-term systen ng-term systen ng-term systen	nic effects in nic effects of nic effects in nic effects in nic effects of nic effects of Nic effects of	nhalation dermal nhalation nhalation dermal	500 mg/m³ 888 mg/kg bw/day Value 500 mg/m³ Value 89 mg/m³ 319 mg/kg bw/day 26 mg/kg bw/day	/ Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL DNEL DNEL DNEL DNEL Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL PNEC propan-2-ol Effect level (DNEL/DMEL) DNEL PNEC propan-2-ol Enter Fresh water Marine water Fresh water (intermittent release	Tyj Loi Loi Loi 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pe ng-term system ng-term system ng-term system ng-term system ng-term system	nic effects in nic effects in nic effects in nic effects of nic effects of nic effects of value 140.9 mg/l 140.9 mg/l	nhalation dermal nhalation nhalation dermal	500 mg/m³ 888 mg/kg bw/day Value 500 mg/m³ Value 89 mg/m³ 319 mg/kg bw/day 26 mg/kg bw/day	/ Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL DNEL/DMEL - General population propan-2-ol Effect level (DNEL/DMEL) DNEL DNEL PNEC propan-2-ol Compartments Fresh water Marine water Fresh water (intermittent releas STP	Tyj Loi Loi Loi 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pe ng-term systen ng-term systen ng-term systen ng-term systen ng-term systen ng-term systen 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nic effects in nic effects of nic effects in nic effects of nic effects of Nic effects of Nic effects of Nic effects of Nic effects of Nic effects of Niceense of Nic effects of Nic effec	nhalation dermal nhalation nhalation dermal oral	500 mg/m³ 888 mg/kg bw/day Value 500 mg/m³ Value 89 mg/m³ 319 mg/kg bw/day 26 mg/kg bw/day	/ Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL DNEL DNEL DNEL DNEL DNEL Effect level (DNEL/DMEL) DNEL PNEC propan-2-ol Effect level (DNEL/DMEL) DNEL PNEC propan-2-ol Englishing Fresh water Marine water Fresh water (intermittent release STP Fresh water sediment	Tyj Loi Loi Loi 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pe ng-term systen ng-term systen ng-term systen ng-term systen ng-term systen ng-term systen 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nic effects in nic effects i nic effects i nic effects i nic effects o nic effects o Value 140.9 mg/l 140.9 mg/l 140.9 mg/l 2251 mg/l 552 mg/kg s	nhalation dermal nhalation nhalation dermal oral sediment dw	500 mg/m³ 888 mg/kg bw/day Value 500 mg/m³ Value 89 mg/m³ 319 mg/kg bw/day 26 mg/kg bw/day	/ Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL DNEL DNEL DNEL DNEL DNEL DNEL Effect level (DNEL/DMEL) DNEL PNEC propan-2-ol Effect level (DNEL/DMEL) DNEL DNEL PNEC propan-2-ol Effect level (DNEL/DMEL) DNEL STP Fresh water (intermittent release STP Fresh water sediment Marine water sediment	Tyj Loi Loi Loi 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pe ng-term systen ng-term systen ng-term systen ng-term systen ng-term systen ng-term systen 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nic effects in nic effects i nic effects i nic effects i nic effects o nic effects o Value 140.9 mg/l 140.9 mg/l 140.9 mg/l 2251 mg/l 2552 mg/kg s	nhalation dermal nhalation nhalation dermal oral sediment dw sediment dw	500 mg/m³ 888 mg/kg bw/day Value 500 mg/m³ Value 89 mg/m³ 319 mg/kg bw/day 26 mg/kg bw/day	/ Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL DNEL DNEL DNEL DNEL DNEL DNEL Effect level (DNEL/DMEL) DNEL PNEC propan-2-ol Effect level (DNEL/DMEL) DNEL PNEC propan-2-ol Effect level (DNEL/DMEL) DNEL STP Fresh water Fresh water sediment Marine water sediment Marine water sediment Soil	Tyj Loi Loi Loi 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pe ng-term system ng-	nic effects in nic effects in nic effects in nic effects in nic effects of nic effects of 140.9 mg/l 140.9 mg/l 140.9 mg/l 140.9 mg/l 1552 mg/kg so	nhalation dermal nhalation nhalation dermal oral sediment dw sediment dw oil dw	500 mg/m³ 888 mg/kg bw/day Value 500 mg/m³ Value 89 mg/m³ 319 mg/kg bw/day 26 mg/kg bw/day	/ Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL DNEL DNEL DNEL DNEL DNEL DNEL Effect level (DNEL/DMEL) DNEL PNEC propan-2-ol Effect level (DNEL/DMEL) DNEL DNEL PNEC propan-2-ol Effect level (DNEL/DMEL) DNEL STP Fresh water (intermittent release STP Fresh water sediment Marine water sediment	Tyj Loi Loi Loi 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pe ng-term system ng-	nic effects in nic effects i nic effects i nic effects i nic effects o nic effects o Value 140.9 mg/l 140.9 mg/l 140.9 mg/l 2251 mg/l 2552 mg/kg s	nhalation dermal nhalation nhalation dermal oral sediment dw sediment dw oil dw	500 mg/m³ 888 mg/kg bw/day Value 500 mg/m³ Value 89 mg/m³ 319 mg/kg bw/day 26 mg/kg bw/day	/ Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL DNEL/DMEL - General population propan-2-ol Effect level (DNEL/DMEL) DNEL DNEL DNEL PNEC propan-2-ol Effect sevel (DNEL/DMEL) DNEL DNEL PNEC propan-2-ol Effect sevel (DNEL/DMEL) DNEL DNEL DNEL Sever Fresh water Fresh water Fresh water (intermittent release STP Fresh water sediment Marine water sediment Soil Oral	Tyj Loi Loi Loi 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pe ng-term system ng-	nic effects in nic effects in nic effects in nic effects in nic effects of nic effects of 140.9 mg/l 140.9 mg/l 140.9 mg/l 140.9 mg/l 1552 mg/kg so	nhalation dermal nhalation nhalation dermal oral sediment dw sediment dw oil dw	500 mg/m³ 888 mg/kg bw/day Value 500 mg/m³ Value 89 mg/m³ 319 mg/kg bw/day 26 mg/kg bw/day	y Remark Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL DNEL/DMEL - General population propan-2-ol Effect level (DNEL/DMEL) DNEL DNEL DNEL DNEL PNEC propan-2-ol Effect level (DNEL/DMEL) DNEL DNEL PNEC propan-2-ol Effect level (DNEL/DMEL) DNEL DNEL PNEC propan-2-ol Effect level (DNEL/DMEL) DNEL DN	Tyj Loi Loi Loi 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pe ng-term system ng-	nic effects in nic effects in nic effects in nic effects in nic effects of nic effects of nic effects of 140.9 mg/l 140.9 mg/l 140.9 mg/l 140.9 mg/l 1251 mg/l 552 mg/kg so 160 mg/kg f	nhalation dermal nhalation nhalation dermal oral sediment dw sediment dw oil dw	500 mg/m ³ 888 mg/kg bw/day Value 500 mg/m ³ Value 89 mg/m ³ 319 mg/kg bw/day 26 mg/kg bw/day	y Remark Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL DNEL/DMEL - General population propan-2-ol Effect level (DNEL/DMEL) DNEL DNEL DNEL DNEL PNEC propan-2-ol Effect evel (DNEL/DMEL) DNEL DNEL PNEC propan-2-ol Effect evel (INEL/DMEL) DNEL DNEL STP Fresh water Fresh water (intermittent release STP Fresh water sediment Marine water sediment Marine water sediment Soil Oral titanium tetraisopropanolate Compartments Fresh water Salt water	Tyj Loi Loi Loi 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pe ng-term system ng-	nic effects in nic effects in nic effects in nic effects in nic effects of nic effects of nic effects of 140.9 mg/l 140.9 mg/l 140.9 mg/l 140.9 mg/l 1251 mg/l 552 mg/kg so 160 mg/kg f Value 0.59 mg/l 0.059 mg/l	nhalation dermal nhalation nhalation dermal oral sediment dw sediment dw oil dw	500 mg/m ³ 888 mg/kg bw/day Value 500 mg/m ³ Value 89 mg/m ³ 319 mg/kg bw/day 26 mg/kg bw/day	y Remark Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL DNEL/DMEL - General population propan-2-ol Effect level (DNEL/DMEL) DNEL DNEL DNEL/DMEL - General population propan-2-ol Effect level (DNEL/DMEL) DNEL DNEL PNEC propan-2-ol Compartments Fresh water Marine water Fresh water Fresh water (intermittent releas STP Fresh water sediment Marine water sediment Marine water sediment Soil Oral titanium tetraisopropanolate Compartments Fresh water Salt water Aqua (intermittent releases)	Tyj Loi Loi Loi 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pe ng-term system ng-	nic effects in nic effects in nic effects in nic effects in nic effects of nic effects of nic effects of 140.9 mg/l 140.9 mg/l 140.9 mg/l 140.9 mg/l 140.9 mg/l 2251 mg/l 552 mg/kg so 160 mg/kg f Value 0.59 mg/l 5.9 mg/l	nhalation dermal nhalation nhalation dermal oral sediment dw sediment dw oil dw	500 mg/m ³ 888 mg/kg bw/day Value 500 mg/m ³ Value 89 mg/m ³ 319 mg/kg bw/day 26 mg/kg bw/day	y Remark Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL DNEL/DMEL - General population propan-2-ol Effect level (DNEL/DMEL) DNEL DNEL DNEL DNEL DNEL Effect level (DNEL/DMEL) DNEL DNEL PNEC propan-2-ol Effect evel (INEL/DMEL) DNEL DNEL STP Fresh water Fresh water Fresh water Fresh water Fresh water sediment Marine water sediment Marine water sediment Soil Oral titanium tetraisopropanolate Compartments Fresh water Salt water Aqua (intermittent releases) STP	Tyj Loi Loi Loi 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pe ng-term system ng-	nic effects in nic effects in nic effects in nic effects in nic effects of nic effects of nic effects of nic effects of 140.9 mg/l 140.9 mg/l 140.9 mg/l 140.9 mg/l 2251 mg/l 2552 mg/kg so 160 mg/kg f Value 0.59 mg/l 5.9 mg/l 105 mg/l	nhalation dermal nhalation nhalation dermal oral sediment dw sediment dw food	500 mg/m ³ 888 mg/kg bw/day Value 500 mg/m ³ Value 89 mg/m ³ 319 mg/kg bw/day 26 mg/kg bw/day	y Remark Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL DNEL/DMEL - General population propan-2-ol Effect level (DNEL/DMEL) DNEL DNEL DNEL DNEL DNEL DNEL PNEC propan-2-ol Effect evel (DNEL/DMEL) DNEL DNEL Effect evel (DNEL/DMEL) DNEL DNEL STP Fresh water Fresh water Fresh water Fresh water Fresh water sediment Marine water sediment Marine water sediment Soil Oral titanium tetraisopropanolate Compartments Fresh water Salt water Aqua (intermittent releases) STP Fresh water sediment	Tyj Loi Loi Loi 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pe ng-term system ng-	nic effects in nic effects in nic effects in nic effects in nic effects of nic effects of nic effects of nic effects of 140.9 mg/l 140.9 mg/l 140.9 mg/l 140.9 mg/l 2251 mg/l 552 mg/kg so 160 mg/kg f Value 0.59 mg/l 0.059 mg/l 105 mg/l 0.482 mg/kg	nhalation dermal nhalation nhalation dermal oral sediment dw sediment dw food	500 mg/m ³ 888 mg/kg bw/day Value 500 mg/m ³ Value 89 mg/m ³ 319 mg/kg bw/day 26 mg/kg bw/day	y Remark Remark	
DNEL/DMEL - Workers propan-2-ol Effect level (DNEL/DMEL) DNEL Effect level (DNEL/DMEL) DNEL DNEL/DMEL - General population propan-2-ol Effect level (DNEL/DMEL) DNEL DNEL DNEL DNEL DNEL Effect level (DNEL/DMEL) DNEL DNEL PNEC propan-2-ol Effect evel (INEL/DMEL) DNEL DNEL STP Fresh water Fresh water Fresh water Fresh water Fresh water sediment Marine water sediment Marine water sediment Soil Oral titanium tetraisopropanolate Compartments Fresh water Salt water Aqua (intermittent releases) STP	Tyj Loi Loi Loi 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pe ng-term system ng-	nic effects in nic effects in nic effects in nic effects in nic effects of nic effects of nic effects of nic effects of 140.9 mg/l 140.9 mg/l 140.9 mg/l 140.9 mg/l 2251 mg/l 552 mg/kg so 160 mg/kg f Value 0.59 mg/l 0.059 mg/l 105 mg/l 0.482 mg/kg	nhalation dermal nhalation dermal oral sediment dw sediment dw food g sediment dw kg sediment dw	500 mg/m ³ 888 mg/kg bw/day Value 500 mg/m ³ Value 89 mg/m ³ 319 mg/kg bw/day 26 mg/kg bw/day	y Remark Remark	

8.2. Exposure controls

Reason for revision: 2;3

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take

precautions against electrostatic charges. Insufficient ventilation: keep naked flames/sparks away. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection:

Gloves.

- materials (good resistance)

Butyl rubber, nitrile rubber, viton, neoprene, chloroprene rubber, chlorosulfonated polyethylene, tetrafluoroethylene.

materials (less resistance)

Chlorinated polyethylene, PVC, neoprene/natural rubber.

- materials (poor resistance)

Natural rubber, polyethylene, PVA.

c) Eye protection:

Protective goggles.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Liquid
Odour	Alcohol odour
Odour threshold	No data available
Colour	Colourless
Particle size	Not applicable (liquid)
Explosion limits	2 - 12 vol %
	50 - 300 g/m³
Flammability	Highly flammable liquid and vapour.
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	> 82 °C
Evaporation rate	No data available
Relative vapour density	2.1
Vapour pressure	43 hPa ; 20 °C
	295 hPa ; 50 °C
Solubility	Water ; soluble
Relative density	0.8
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Flash point	12 °C
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

9.2. Other information Absolute density

800 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

May build up electrostatic charges: risk of ignition. May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Violent to explosive reaction with (strong) oxidizers. Reacts exothermically with (some) metals. Prolonged storage/in large quantities: may form peroxides.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Insufficient ventilation: keep naked flames/sparks away.

Reason for revision: 2;3

10.5. Incompatible materials

Oxidizing agents, (strong) acids, (strong) bases, halogens.

10.6. Hazardous decomposition products

Upon combustion: CO and CO2 are formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

Fix-In Surface activator

No (test)data on the mixture available

Judgement is based on the relevant ingredients propan-2-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD 401	5840 mg/kg bw		Rat	Experimental value	
Dermal	LD50	Equivalent to OECD 402	16400 mg/kg bw	24 h	Rabbit	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 10000 ppm	÷	Rat (male / female)	Experimental value	

titanium tetraisopropanolate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD 401	7500 mg/kg bw		Rat (male)	Weight of evidence	
Dermal	LD50		12870 mg/kg bw		Rabbit	Read-across	
Inhalation (aerosol)	LC50		7780 mg/m³ air	4 h	Rat (male)	Weight of evidence	

Conclusion

Not classified for acute toxicity

Corrosion/irritation

Fix-In Surface activator

No (test)data on the mixture available

Classification is based on the relevant ingredients

Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Eye	Irritating	Equivalent to OECD 405		24 hours	Rabbit	Experimental value	Single treatment
Skin	Not irritating		4 h	4; 24; 48; 72 hours		Experimental value	
anium tetraisopropa	inolate						
Route of exposure	Result	Method	Exposure time	Time noint	Snecies	Value	Remark

gle treatment
gle

Conclusion

Causes serious eye irritation.

Not classified as irritating to the skin

Respiratory or skin sensitisation

Fix-In Surface activator

No (test)data on the mixture available

Judgement is based on the relevant ingredients

propan-2-ol

Route of exposure	Result	Method	Exposure time	Observation time	Species	Value determination	Remark
				point			
Skin	Not sensitizing	OECD 406		24; 48 hours	Guinea pig (male / female)	Experimental value	

Reason for revision: 2;3

Publication date: 2011-05-03 Date of revision: 2017-01-20

Revision number: 302



Route of exposure	e Result	Method	E	•	Observation time	Species	/alue determination	Remark
Skin	Not sensitiz	ing OECD 429)		Joint	Mouse (female)	Experimental value	
onclusion						, ,		
Not classified as ser Not classified as ser fic target organ tox In <u>Surface activator</u> Io (test)data on the	nsitizing for inh i city mixture availal	alation						
Classification is base	ed on the relev	ant ingredients						
propan-2-ol Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determinatior
Oral								Data waiving
Dermal								Data waiving
Inhalation (vapours)	NOAEC	OECD 451	5000 ppm		No effect	104 weeks (6h / da days / week)	y, 5 Rat (male / female)	Experimental value
Inhalation (vapours)	Dose level	Equivalent to OECD 403	5000 ppm	Central nervou system	s Drowsiness, dizziness	6 h	Rat (male / female)	Experimental value
titanium tetraisopro	·	1						
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determinatior
Oral	NOAEL		2200 mg/kg bw/day		No effect	2 weeks (5 days / week)	Rat (male)	Inconclusive, insufficient da
Inhalation (vapours)	Dose level	EPA TSCA consent order	5000 ppm	Central nervou system	s Central nervous system depression	6 h	Rat (male / female)	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	5000 ppm		No effect	13 weeks (6h / day days / week)	, 5 Rat (male / female)	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	5000 ppm			13 weeks (6h / day days / week)	, 5 Mouse (male / female)	Read-across
onclusion May cause drowsing genicity (in vitro) In Surface activator No (test)data on the propan-2-ol								
Result		Method		Test substrat	e	Effect	Value dete	rmination
Negative with n activation, nega metabolic activa	tive without	Equivalent to C	ECD 471	Bacteria (S.ty		No effect	Experimen	tal value
titanium tetraisopro	<u>panolate</u>						•	
Result		Method		Test substrat		Effect	Value dete	
Negative with n activation, nega metabolic activa	tive without	Equivalent to C	ECD 471	Bacteria (S.ty	phimurium)		Weight of	evidence

Fix-In Surface activator

No (test)data on the mixture available

Judgement is based on the relevant ingredients

pro	pan-2-ol							
	Result	Method	Exposure time	Test substrate	Organ	Value determination		
	Negative	Equivalent to OECD		Mouse (male / female)		Experimental value		
		474						
titar	itanium tetraisopropanolate							
	Result	Method	Exposure time	Test substrate	Organ	Value determination		
	Negative	EPA OTS 798.5395		Mouse (male / female)		Read-across		

Negative

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

Fix-In Surface activator

No (test)data on the mixture available

Reason for revision: 2;3

Judgement is based on the relevant ingredients

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determinatio
Inhalation (vapours)	NOEL	OECD 451	5000 ppm	104 weeks (6h / day, 5 days / week)	Rat (male / female)	No carcinogenic effect		Experimenta value
nium tetraisc	propanolate			•		-	•	
Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determinatio
Inhalation (vapours)	NOEL	Equivalent to OECD 451	> 5000 ppm	78 weeks (6h / day, 5 days / week)	Mouse (male / female)	No effect		Read-across
Inhalation (vapours)	NOEL	Equivalent to OECD 451	> 5000 ppm	104 weeks (6h / day, 5 days / week)	Rat (male / female)	No effect		Read-across

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

Fix-In Surface activator

No (test)data on the mixture available

Judgement is based on the relevant ingredients

propan-2-ol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
								determination
Developmental toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	400 mg/kg bw/day	10 day(s)	Rat	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	400 mg/kg bw/day	10 day(s)	Rat (female)	No effect		Experimental value
Effects on fertility (Oral (drinking water))	NOAEL	Equivalent to OECD 415	853 mg/kg bw/day	21 day(s) - 70 day(s)	Rat (male / female)	No effect		Experimental value

titanium tetraisopropanolate

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	EPA OTS 798.4900	400 mg/kg bw/day	10 days (gestation, daily)	Rat (male / female)	No effect		Read-across
	NOAEL	EPA OTS 798.4900	480 mg/kg bw/day	1 <mark>3 days</mark> (gestation, daily)	Rabbit (male / female)	No effect		Read-across
Maternal toxicity	NOAEL		400 mg/kg bw/day	10 days (gestation, daily)	Rat (female)	No effect		Read-across
	NOAEL		240 mg/kg bw/day	13 days (gestation, daily)	Rabbit (female)	No effect		Read-across

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

Fix-In Surface activator

No (test)data on the mixture available

Chronic effects from short and long-term exposure

Fix-In Surface activator

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Itching. Skin rash/inflammation. Impaired memory. Cracking of the skin.

SECTION 12: Ecological information

12.1. Toxicity

<u>Fix-In Surface activator</u> No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

Reason for revision: 2;3

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	9640 mg/l - 10000 mg/l	96 h	Pimephales promelas	Flow- through system	Fresh water	Experimental value; Lethal
Acute toxicity crustacea	LC50	Equivalent to OECD 202	> 10000 mg/l	24 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	Toxicity threshold		1800 mg/l	7 day(s)	Scenedesmus quadricauda	Static system	Fresh water	Experimental value; Toxicity test
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC		2344 µmol/l	16 day(s)	Daphnia magna		Fresh water	Experimental value; Growth
Toxicity aquatic micro- organisms	Toxicity threshold	Equivalent to DIN 38412/8	1050 mg/l	16 h	Pseudomonas putida	Static system	Fresh water	Experimental value; Toxicity test
	EC50	ISO 8192	41676 mg/l	30 minutes	Activated sludge			Experimental value
anium tetraisopropanolate								
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		4200 mg/l	96 h	Rasbora heteromorpha	Static system		Read-across
Acute toxicity crustacea	EC50	OECD 202	590 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
	NOEC	OECD 202	440 mg/l	24 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EC50	OECD 201	> 820 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Growth rate
	EC50	OECD 201	400 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Biomass
				1			Fresh water	Experimental value;
	NOEC	OECD 201	201 mg/l	72 h	Desmodesmus subspicatus	Static system	Flesh water	Biomass
	NOEC LOEC	OECD 201 OECD 201	201 mg/l 97 mg/l	72 h 72 h		Static system		

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

propan-2-ol

Vethod	Value	Duration	Value determination
DECD 301E: Modified OECD Screening Test	95 %	21 day(s)	Experimental value
ototransformation air (DT50 air)			
Viethod	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	17.668 h	1500000 /cm ³	Calculated value

Biodegradation water

Blodegradation water								
Method	Value	Duration	Value determination					
OECD 301C: Modified MITI Test (I)	84 % - 89 %	28 day(s)	Experimental value					
nototransformation air (DT50 air)								
Method	Value	Conc. OH-radicals	Value determination					
			Calculated value					
Half-life water (t1/2 water)								
Method	Value	Primary degradation/mineralisation	Value determination					
OECD 111: Hydrolysis as a function of pH	< 3 minutes; GLP		Experimental value					

Conclusion

Contains readily biodegradable component(s)

12.3. Bioaccumulative potential

Fix-In Surface activator

Log Kow

	Method	Remark	Value	Temperature	Value determination		
		Not applicable (mixture)					
Reaso	Reason for revision: 2;3 Publication date: 2011-05-03						
				Date of revision: 2017-0	01-20		

Revision number: 302

propan-2-ol

Log Kow				
Method	Remark	Value	Temperature	Value determination
		0.05	25 °C	Weight of evidence approach
tanium tetraisopropa	nolate			
Log Kow				
Method	Remark	Value	Temperature	Value determination
		1.03		Calculated

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

propan-2-ol	
(log) Koc	

	Parameter	Method	Value	Value determination
	log Koc	SRC PCKOCWIN v2.0	0.185 - 0.541	Calculated value
tita	nium tetraisopropanolate			

(log) Koc

ameter	Method	Value	Value determination
S	SRC PCKOCWIN v2.0	1.53	Read-across

Conclusion

Contains component(s) with potential for mobility in the soil

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Other adverse effects

Fix-In Surface activator

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Groundwater pollutant

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

propan-2-ol

Groundwater



SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Hazardous waste according to Directive 2008/98/EC.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

20 01 29* (separately collected fractions (except 15 01): detergents containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Recycle/reuse. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into surface water.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14. <u>1</u> . UN number		
UN number	1219	
14.2. UN proper shipping name		
Proper shipping name	Isopropanol (isopropyl alcohol), mixture	
14.3. Transport hazard class(es)		
Hazard identification number	33	
Class	3	
Classification code	F1	
14.4. Packing group		

Reason for revision: 2;3

Packing group	Ш
Labels	3
I.5. Environmental hazards	
Environmentally hazardous substance mark	no
.6. Special precautions for user	
Special provisions	601
Limited quantities	Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)

Rail (RID)

14. <u>1</u> . UN number	
UN number	1219
14.2. UN proper shipping name	
Proper shipping name	Isopropanol (isopropyl alcohol), mixture
14.3. Transport hazard class(es)	
Hazard identification number	33
Class	3
Classification code	F1
14.4. Packing group	
Packing group	11
Labels	3
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	601
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Inland waterways (ADN)

14.1. UN number	
UN number	1219
14.2. UN proper shipping name	
Proper shipping name	Isopropanol (isopropyl alcohol), mixture
14.3. Transport hazard class(es)	
Class	3
Classification code	F1
4.4. Packing group	
Packing group	
Labels	3
4.5. Environmental hazards	
Environmentally hazardous substance mark	no
4.6. Special precautions for user	
Special provisions	601
Limited quantities	Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)

Sea (IMDG/IMSBC)

14. <u>1</u> . UN number	
UN number	1219
14.2. UN proper shipping name	
Proper shipping name	Isopropanol (isopropyl alcohol), mixture
14.3. Transport hazard class(es)	
Class	3
14.4. Packing group	
Packing group	П
Labels	3
14.5. Environmental hazards	
Marine pollutant	- -
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
14.7. Transport in bulk according to Annex II of Marpol and the	a IBC Code
Annex II of MARPOL 73/78	Not applicable, based on available data
ir (ICAO-TI/IATA-DGR)	
14. <u>1. UN number</u>	
UN number	1219
14.2. UN proper shipping name	
Proper shipping name	Isopropanol, mixture
14.3. Transport hazard class(es)	

Class	3	
I.4. Packing group		
Packing group	П	
Labels	3	
4. <u>5</u> . Environmental hazards		
Environmentally hazardous substance mark	no	
4.6. Special precautions for user		
Special provisions	A180	
Passenger and cargo transport		
Limited quantities: maximum net quantity per packaging	1L	

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
100 %	

Ingredients according to Regulation (EC) No 648/2004 and amendments

≥30% desinfectants

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
propan-2-ol titanium tetraisopropanolate	Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	 Shall not be used in: ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, tricks and jokes, games for one or more participants, or any article intended to be used as such, even ornamental aspects, Articles not complying with paragraph 1 shall not be placed on the market. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
propan-2-ol titanium tetraisopropanolate	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.	 Shall not be used, as substance or as mixtures in aerosol dispensers where these aerodispensers are intended for supply to the general public for entertainment and decoratiopurposes such as the following: metallic glitter intended mainly for decoration, artificial snow and frost, "whoopee" cushions, silly string aerosols, initation excrement, horns for parties, decorative flakes and foams, artificial cobwebs, stink bombs. Without prejudice to the application of other Community provisions on the classificat packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, leg and indelibly with:
son for revision: 2;3		Publication date: 2011-05-03

Date of revision: 2017-01-20

	"For professional users only". 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC. 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
<u>National legislation Be</u> <u>Fix-In Surface activa</u> No data available	ator
National legislation Th Fix-In Surface active	
No data available	
National legislation Fra Fix-In Surface activa No data available	ator
National legislation Ge Fix-In Surface activa	
WGK	1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährder Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
propan-2-ol	
TA-Luft	5.2.5
TRGS900 - Risiko Fruchtschädigung titanium tetraisopr	Grenzwertes nicht befürchtet zu werden
· · · · · ·	
TA-Luft	5.2.5
National legislation Ur Fix-In Surface active	ator
No data available	
<u>Other relevant data</u> Fix-In Surface activa	ator
No data available	
propan-2-ol	
· · · · · · · · · · · · · · · · · · ·	
IARC - classificatio TLV - Carcinogen 2. Chemical safety	2-propanol; A4
IARC - classificatio TLV - Carcinogen 2. Chemical safety No chemical safety	2-propanol; A4 / assessment
IARC - classificatio TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other	2-propanol; A4 / assessment assessment has been conducted. r information
IARC - classificatio TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other Full text of any H-state	2-propanol; A4 / assessment assessment has been conducted.
IARC - classificatio TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other Full text of any H-state	2-propanol; A4 (assessment assessment has been conducted. r information ments referred to under heading 3: nable liquid and vapour.
IARC - classificatio TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Othe Full text of any H-state H225 Highly flamm	2-propanol; A4 (assessment assessment has been conducted. r information ments referred to under heading 3: nable liquid and vapour. iquid and vapour.
IARC - classification TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serio	2-propanol; A4 (assessment assessment has been conducted. r information ments referred to under heading 3: nable liquid and vapour. iquid and vapour.
IARC - classification TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serio	2-propanol; A4 v assessment assessment has been conducted. r information tements referred to under heading 3: nable liquid and vapour. iquid and vapour. us eye irritation.
IARC - classification TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serio	2-propanol; A4 v assessment assessment has been conducted. r information tements referred to under heading 3: nable liquid and vapour. iquid and vapour. us eye irritation.
IARC - classification TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serio H336 May cause d	2-propanol; A4 / assessment assessment has been conducted. r information ments referred to under heading 3: nable liquid and vapour. iquid and vapour. us eye irritation. rowsiness or dizziness.
IARC - classification TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serio H336 May cause d (*)	2-propanol; A4 assessment assessment has been conducted. rinformation sements referred to under heading 3: nable liquid and vapour. iquid and vapour. us eye irritation. Irowsiness or dizziness. INTERNAL CLASSIFICATION BY BIG
IARC - classification TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serio H336 May cause d (*) ADI	2-propanol; A4 assessment assessment has been conducted. r information sments referred to under heading 3: nable liquid and vapour. iquid and vapour. us eye irritation. rowsiness or dizziness. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake
IARC - classificatio TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamn H226 Flammable I H319 Causes serio H336 May cause d (*) ADI AOEL	2-propanol; A4 assessment assessment has been conducted. r information sments referred to under heading 3: nable liquid and vapour. iquid and vapour. us eye irritation. Irowsiness or dizziness. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable operator exposure level
IARC - classificatio TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamn H226 Flammable I H319 Causes serio H336 May cause d (*) ADI AOEL CLP (EU-GHS)	2-propanol; A4 assessment assessment has been conducted. r information ments referred to under heading 3: nable liquid and vapour. iquid and vapour. us eye irritation. Irowsiness or dizziness. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable operator exposure level Classification, labelling and packaging (Globally Harmonised System in Europe)
IARC - classificatio TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamn H226 Flammable I H319 Causes serio H336 May cause d (*) ADI AOEL CLP (EU-GHS) DMEL	2-propanol; A4 / assessment assessment has been conducted. r information ments referred to under heading 3: nable liquid and vapour. iquid and vapour. us eye irritation. rowsiness or dizziness. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable operator exposure level Classification, labelling and packaging (Globally Harmonised System in Europe) Derived Minimal Effect Level
ADI ACC - classificatio TLV - Carcinogen C. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serio H336 May cause d (*) ADI AOEL CLP (EU-GHS) DMEL DNEL	2-propanol; A4 (assessment assessment has been conducted. r information ments referred to under heading 3: nable liquid and vapour. iquid and vapour. us eye irritation. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable operator exposure level Classification, labelling and packaging (Globally Harmonised System in Europe) Derived Minimal Effect Level Derived No Effect Level
ADI ACC - classificatio TLV - Carcinogen C. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serio H336 May cause d (*) ADI AOEL CLP (EU-GHS) DMEL DNEL EC50	2-propanol; A4 (assessment assessment has been conducted. r information prents referred to under heading 3: nable liquid and vapour. iquid and vapour. us eye irritation. Irowsiness or dizziness. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable daily intake Acceptable operator exposure level Classification, labelling and packaging (Globally Harmonised System in Europe) Derived Minimal Effect Level Derived No Effect Level Effect Concentration 50 %
ADI ACEL CLP (EU-GHS) DMEL EVEL CLP (EU-GHS) DMEL EVEL EVEL EVEL EVEL EVEL EVEL EVEL E	2-propanol; A4 v assessment assessment has been conducted. r information siments referred to under heading 3: nable liquid and vapour. iquid and vapour. us eye irritation. Irrowsiness or dizziness. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable doperator exposure level Classification, labelling and packaging (Globally Harmonised System in Europe) Derived No Effect Level Derived No Effect Level Effect Concentration 50 % EC50 in terms of reduction of growth rate
IARC - classification TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serion H336 May cause d (*) ADI AOEL CLP (EU-GHS) DMEL DNEL EC50 ErC50 LC50	2-propanol; A4 (assessment assessment has been conducted. rinformation ments referred to under heading 3: nable liquid and vapour. liquid and vapour. us eye irritation. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable operator exposure level Classification, labelling and packaging (Globally Harmonised System in Europe) Derived Minimal Effect Level Derived No Effect Level Effect Concentration 50 % EC50 in terms of reduction of growth rate Lethal Concentration 50 %
IARC - classification TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serion H336 May cause d (*) ADI AOEL CLP (EU-GHS) DMEL EC50 ErC50 LC50 LC50 LD50	2-propanol; A4 / assessment assessment has been conducted. / information ments referred to under heading 3: nable liquid and vapour. iquid and vapour. iquid and vapour. us eye irritation. rowsiness or dizziness. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable operator exposure level Classification, labelling and packaging (Globally Harmonised System in Europe) Derived Minimal Effect Level Derived No Effect Level Derived No Effect Level Effect Concentration 50 % EC50 in terms of reduction of growth rate Lethal Dose 50 %
IARC - classification TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serio H336 May cause d (*) ADI AOEL CLP (EU-GHS) DMEL DNEL EC50 ErC50 LC50 LC50 LC50 LD50 NOAEL NOEC OECD	2-propanol; A4 Assessment assessment has been conducted. information ments referred to under heading 3: nable liquid and vapour. iquid and vapour. iquid and vapour. us eye irritation. Irrowsiness or dizziness. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable operator exposure level Classification, labelling and packaging (Globally Harmonised System in Europe) Derived Minimal Effect Level Derived No Effect Level Effect Concentration 50 % ECS0 in terms of reduction of growth rate Lethal Concentration 50 % Lethal Dose 50 % No Observed Effect Level No Observed Effect Level No Observed Effect Concentration Organisation for Economic Co-operation and Development
IARC - classification TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serion H336 May cause of (*) ADI AOEL CLP (EU-GHS) DMEL DNEL EC50 ErC50 LC50 LC50 LC50 LD50 NOAEL NOEC OECD PBT	2-propanol; A4 / assessment assessment has been conducted. rinformation ments referred to under heading 3: nable liquid and vapour. iquid and vapour. us eye irritation. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable operator exposure level Classification, labelling and packaging (Globally Harmonised System in Europe) Derived Minimal Effect Level Derived No Effect Level Effect Concentration 50 % EC50 in terms of reduction of growth rate Lethal Concentration 50 % Lethal Dose 50 % No Observed Effect Level No Observed Effect Concentration Organisation for Economic Co-operation and Development Persistent, Bioaccumulative & Toxic
ADI ACEL CLP (EU-GHS) DMEL ECSO ECSO ECSO ECSO ECSO ECSO ECSO ECSO	2-propanol; A4 A assessment assessment has been conducted. Finformation ments referred to under heading 3: nable liquid and vapour. iquid and vapour. us eye irritation. rowsiness or dizziness. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable operator exposure level Classification, labelling and packaging (Globally Harmonised System in Europe) Derived Minimal Effect Level Derived No Effect Level Effect Concentration 50 % ECSD in terms of reduction of growth rate Lethal Dose 50 % No Observed Adverse Effect Level No Observed Effect Concentration Organisation for Economic Co-operation and Development Persistent, Bioaccumulative & Toxic Predicted No Effect Concentration
ADI ACC - classificatio TLV - Carcinogen C. Chemical safety No chemical safety ON 16: Other Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serio H336 May cause d (*) ADI AOEL CLP (EU-GHS) DMEL DNEL EC50 ErC50 LC50 LC50 LC50 LC50 LC50 LC50 NOAEL NOEC OECD PBT PNEC STP	2-propanol; A4 Assessment assessment has been conducted. Assessment has been conducted. As
ADI ACEL CLP (EU-GHS) DMEL ECSO ECSO ECSO ECSO ECSO ECSO ECSO ECSO	2-propanol; A4 A assessment assessment has been conducted. Finformation ments referred to under heading 3: nable liquid and vapour. iquid and vapour. us eye irritation. rowsiness or dizziness. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable operator exposure level Classification, labelling and packaging (Globally Harmonised System in Europe) Derived Minimal Effect Level Derived No Effect Level Effect Concentration 50 % ECSD in terms of reduction of growth rate Lethal Dose 50 % No Observed Adverse Effect Level No Observed Effect Concentration Organisation for Economic Co-operation and Development Persistent, Bioaccumulative & Toxic Predicted No Effect Concentration
ADI ACEL CLP (EU-GHS) DMEL DNEL ECSO ECSO ECSO ECSO ECSO ECSO ECSO ECSO	2-propanol; A4 Assessment assessment has been conducted. Assessment has been conducted. As
ADI ACEL CLP (EU-GHS) DMEL DMEL DMEL NO CHEMICAL ACEL CLP (EU-GHS) DMEL DMEL NOEC OECD PBT PNEC STP VPVB The information i	2-propanol; A4 Assessment assessment has been conducted. Tinformation ments referred to under heading 3: nable liquid and vapour. liquid and vapour. us eye irritation. rowsiness or dizziness. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable operator exposure level Classification, labelling and packaging (Globally Harmonised System in Europe) Derived Minimal Effect Level Derived Mo Effect Level Derived No Effect Level Lethal Concentration 50 % Lethal Doserved Adverse Effect Level No Observed Adverse Effect Concentration Sudge Treatment Process very Persistent & very Bioaccumulative
IARC - classificatio TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Othe Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serio H336 May cause d (*) ADI AOEL CLP (EU-GHS) DMEL DNEL EC50 LC50 LD50 NOAEL NOEC OECD PBT PNEC STP vPvB	2-propariol; A4 rassessment assessment has been conducted. rinformation ments referred to under heading 3: nable liquid and vapour. iquid and vapour. use ye irritation. rowsiness or dizziness. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable operator exposure level Classification, labelling and packaging (Globally Harmonised System in Europe) Derived Minimal Effect Level Effect Concentration 50 % EC50 in terms of reduction of growth rate Lethal Concentration 50 % Lethal Dose 50 % No Observed Affect Concentration Organisation for Economic Co-operation and Development Presistent, Bioaccumulative & Toxic Predicted No Effect Level Predicted No Effect Concentration Sludge Treatment Process very Persistent & very Bioaccumulative
IARC - classificatio TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Othe Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serio H336 May cause d (*) ADI AOEL CLP (EU-GHS) DMEL DNEL EC50 LC50 LD50 NOAEL NOEC OECD PBT PNEC STP vPvB	2-propanol; A4 Assessment assessment has been conducted. information ments referred to under heading 3: nable liquid and vapour. iguid and vapour. us eye irritation. trowsiness or dizziness. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable daily intake Acceptable operator exposure level Classification, labelling and packaging (Globally Harmonised System in Europe) Derived Minimal Effect Level Derived Mo Effect Level Effect Concentration 50 % EC50 in terms of reduction of growth rate Lethal Concentration 50 % Lethal Doserved Adverse Effect Level No Observed Adverse Effect Level No Observed Adverse Effect Level No Observed Effect Concentration Organisation for Economic Co-operation and Development Persistent, Bioaccumulative & Toxic Predicted No Effect Concentration Sludge Treatment Process very Persistent & very Bioaccumulative n this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability tate of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption
IARC - classificatio TLV - Carcinogen 2. Chemical safety No chemical safety ON 16: Othe Full text of any H-state H225 Highly flamm H226 Flammable I H319 Causes serio H336 May cause d (*) ADI AOEL CLP (EU-GHS) DMEL DNEL EC50 LC50 LD50 NOAEL NOEC OECD PBT PNEC STP vPvB	2-propanol; A4 r assessment assessment has been conducted. r information ments referred to under heading 3: nable liquid and vapour. use yee viritation. rowsiness or dizziness. INTERNAL CLASSIFICATION BY BIG Acceptable daily intake Acceptable daily intake Acceptable daily intake Acceptable doerntor exposure level Classification, labelling and packaging (Globally Harmonised System in Europe) Derived Minimal Effect Level Derived No Effect Level Derived No Effect Level Derived No Effect Level Derived Adverse Effect Level No Observed Effect Concentration Sludge Treatment Process very Persistent & loaccumulative n this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability tate of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumpt t and disposal of the substances/preparations/mixtures mentioned under point

no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet has been elaborated for use within the European Union, Switzerland, Iceland, Norway and Lichtenstein. It may be consulted in other countries, where local legislation with regards to the set-up of safety data sheets will take precedence. It is your obligation to verify and apply such local legislation. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.



Reason for revision: 2;3

Publication date: 2011-05-03 Date of revision: 2017-01-20

Revision number: 302