

Ingenium Operations BV

Bicycle Tire Sealant Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of Issue: 18/01/2020 Version: 1.2

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

1.1. Product identifier

Product Type : Mixture
Product : Bicycle Tire Sealant

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Inside Tubeless bicycle tires or inside bicycle inner tubes.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Company:

Ingenium Operations BV
Christa Erlichhof 10
3059LL Rotterdam
The Netherlands

1.4. Emergency telephone number

Emergency number : +31 10 3405310

SECTION 2: Hazards identification

Classification of the substance or mixture Classification According to Regulation (EC) No. 1272/2008 [CLP] Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.1. Label elements

Labelling According to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.2. Other hazards

Other hazards not contributing to the classification : Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

SECTION 3: Composition/information on ingredients

Substances

Not applicable

3.1. Mixture

Name	Product identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
H2O	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	30	Not classified
Synthetic Polymer	CAS#: 9003-55-8	20	Not classified
Synthetic Polymer	CAS#: 9005-98-5.	20	Not classified
1,2-Propanediol	(CAS-No.) 57-55-6 (EC-No.) 200-338-0	20	Not classified
Powder	(CAS-No.) 12001-26-2 (EC-No.) 601-648-2	10	Not classified

Full text of H-statements: see section 16

SECTION 4: First aid measures

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4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

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EN (English)

First-aid measures after skin contact : Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

First-aid measures after eye contact : Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : Prolonged exposure may cause irritation.

Symptoms/effects after skin contact : Prolonged exposure may cause skin irritation.

Symptoms/effects after eye contact : May cause slight irritation to eyes.

Symptoms/effects after ingestion : Ingestion may cause adverse effects.

Chronic symptoms : None expected under normal conditions of use.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not considered flammable but may burn at high temperatures.

Explosion hazard : Product is not explosive.

Reactivity : Hazardous reactions will not occur under normal conditions.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂).

5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire.

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

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6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protective equipment (PPE).

Emergency procedures : Evacuate unnecessary personnel.

Measures in case of dust release : Not applicable.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible materials : Strong acids, strong bases, strong oxidizers.

7.3. Specific end use(s)

Inside Tubeless bicycle tires or inside bicycle inner tubes.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1,2-Propanediol (57-55-6)		
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	474 mg/m ³ (total vapor and particles) 10 mg/m ³ (particles)
Croatia	GVI (granična vrijednost izloženosti) (ppm)	150 ppm
Latvia	OEL TWA (mg/m ³)	7 mg/m ³

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United Kingdom	WEL TWA (mg/m ³)	474 mg/m ³ (total particulates and vapour) 10 mg/m ³ (particulates)
United Kingdom	WEL TWA (ppm)	150 ppm (total particulates and vapour)
United Kingdom	WEL STEL (mg/m ³)	1422 mg/m ³ (calculated-total particulate and vapour) 30 mg/m ³ (calculated-particulate)
United Kingdom	WEL STEL (ppm)	450 ppm (calculated-total particulate and vapour)
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³ (particulates) 470 mg/m ³ (total vapour and particulates)
Ireland	OEL (8 hours ref) (ppm)	150 ppm (total vapour and particulates)
Ireland	OEL (15 min ref) (mg/m ³)	1410 mg/m ³ (calculated-particulates) 30 mg/m ³ (calculated)
Ireland	OEL (15 min ref) (ppm)	450 ppm (calculated-total vapour and particulates)
Lithuania	IPRV (mg/m ³)	7 mg/m ³
Norway	Grenseverdier (AN) (mg/m ³)	79 mg/m ³
Norway	Grenseverdier (AN) (ppm)	25 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	118,5 mg/m ³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	37,5 ppm (value calculated)
Poland	NDS (mg/m ³)	100 mg/m ³ (vapor and inhalable fraction)
<i>Petroleum distillates, hydrotreated light (64742-47-8)</i>		
Switzerland	KZGW (mg/m ³)	700 mg/m ³
Switzerland	MAK (mg/m ³)	350 mg/m ³
<i>Mica (12001-26-2)</i>		
Austria	MAK (mg/m ³)	10 mg/m ³ (inhalable fraction)
Belgium	Limit value (mg/m ³)	3 mg/m ³
<i>Mica (12001-26-2)</i>		
Bulgaria	OEL TWA (mg/m ³)	3 mg/m ³ (containing <2% free Crystalline silicon dioxide in respirable fraction-respirable fraction) 6 mg/m ³ (containing <2% free Crystalline silicon dioxide in respirable fraction-inhalable fraction)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,8 mg/m ³ (respirable dust) 10 mg/m ³ (total dust)
USA ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³ (respirable particulate matter)
Spain	VLA-ED (mg/m ³)	3 mg/m ³ (this value is for the particulate matter that is free from Asbestos and contains less than 1% of crystalline Silica-respirable fraction)
Switzerland	MAK (mg/m ³)	3 mg/m ³ (respirable dust)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ (total inhalable) 0,8 mg/m ³ (respirable)

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United Kingdom	WEL STEL (mg/m ³)	30 mg/m ³ (calculated-total inhalable) 2,4 mg/m ³ (calculated-respirable)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	2 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	3 mg/m ³ (respirable fraction) 10 mg/m ³ (total inhalable dust)
Ireland	OEL (15 min ref) (mg/m ³)	9 mg/m ³ (calculated-respirable fraction) 2,4 mg/m ³ (calculated-inhalable)
Norway	Grenseverdier (AN) (mg/m ³)	6 mg/m ³ (total dust) 3 mg/m ³ (respirable dust)
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	12 mg/m ³ (value calculated-total dust) 6 mg/m ³ (value calculated-respirable dust)
Romania	OEL TWA (mg/m ³)	3 mg/m ³ (no Asbestos fibers, neither Quartz >=1%-dust, inhalable fraction)
Portugal	OEL TWA (mg/m ³)	3 mg/m ³ (respirable fraction)

8.2. Exposure controls

Appropriate engineering controls : Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal protective equipment : Gloves. Protective clothing. Protective goggles.

Materials for protective clothing : Chemically resistant materials and fabrics.

Hand protection : Wear protective gloves.

Eye and Face Protection : Chemical safety goggles.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other information : When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : White. Milky.

Colour : No data available

Odour : Slight, soapy.

Odour threshold : No data available

pH : 7 - 9

Evaporation rate : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

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Decomposition temperature : No data available
Flammability (solid, gas) : ASTM D93 > 70 C Non
Hazardous
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Solubility : Soluble.
Partition coefficient: n-octanol/water : No data available

Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous decomposition products

Does not decompose.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

1,2-Propanediol (57-55-6)	
LD50 oral rat	20 g/kg
LD50 dermal rabbit	20800 mg/kg

Skin corrosion/irritation : Not classified
pH: 7 - 9
Serious eye damage/irritation : Not classified
pH: 7 - 9
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Symptoms/Injuries After Inhalation : Prolonged exposure may cause irritation.
Symptoms/Injuries After Skin Contact : Prolonged exposure may cause skin irritation.
Symptoms/Injuries After Eye Contact : May cause slight irritation to eyes.

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Symptoms/Injuries After Ingestion : Ingestion may cause adverse effects.
 Chronic Symptoms : None expected under normal conditions of use.
 Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified.

1,2-Propanediol (57-55-6)	
LC50 fish 1	51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	10000 mg/l (Exposure time: 24 h - Species: Daphnia magna)
LC50 fish 2	41 - 47 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 2	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

12.2. Persistence and degradability

Bicycle Tire Sealant	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Bicycle Tire Sealant	
Bioaccumulative potential	Not established.
1,2-Propanediol (57-55-6)	
BCF fish 1	< 1
Log Pow	-0,92

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local, regional, national, and international regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued. In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
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14.1. UN number				
Not regulated for transport				
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

14.6. Special precautions for user

No additional information available

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

1,2-Propanediol (57-55-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Date of Preparation or Latest Revision : 17/01/2019

Data sources

: Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.

Other information

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Full Text of H- and EUH-statements:

Asp. Tox. 1	Aspiration hazard, Category 1
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<i>Flam. Liq. 3</i>	<i>Flammable liquids, Category 3</i>
<i>STOT SE 3</i>	<i>Specific target organ toxicity — Single exposure, Category 3, Narcosis</i>
<i>H226</i>	<i>Flammable liquid and vapour.</i>
<i>H304</i>	<i>May be fatal if swallowed and enters airways.</i>
<i>H336</i>	<i>May cause drowsiness or dizziness.</i>

Indication of Changes No additional information available

Abbreviations and Acronyms

*ACGIH – American Conference of Governmental Industrial Hygienists
ADN – European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road
ATE - Acute Toxicity Estimate BCF - Bioconcentration Factor
BEI - Biological Exposure Indices (BEI) BOD – Biochemical Oxygen Demand
CAS No. - Chemical Abstracts Service Number
CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008 COD – Chemical Oxygen Demand
EC – European Community
EC50 - Median Effective Concentration EEC – European Economic Community
EINECS – European Inventory of Existing Commercial Chemical Substances EmS-No. (Fire) - IMDG Emergency Schedule Fire
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage EU – European Union
ErC50 - EC50 in Terms of Reduction Growth Rate
GHS – Globally Harmonized System of Classification and Labeling of Chemicals
IARC - International Agency for Research on Cancer IATA - International Air Transport Association
IBC Code - International Bulk Chemical Code IMDG - International Maritime*

*MARPOL - International Convention for the Prevention of Pollution
NDS - Najwyższe Dopuszczalne Stezenie
NDSCh - Najwyższe Dopuszczalne Stezenie Chwilowe NDSP - Najwyższe Dopuszczalne Stezenie Pulapowe
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration NRD - Nevirsytinas Ribinis Dydis
NTP – National Toxicology Program OEL - Occupational Exposure Limits
PBT - Persistent, Bioaccumulative and Toxic PEL - Permissible Exposure Limit
pH – Potential Hydrogen
REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail
SADT - Self Accelerating Decomposition Temperature SDS - Safety Data Sheet
STEL - Short Term Exposure Limit
TA-Luft - Technische Anleitung zur Reinhaltung der Luft TEL TRK – Technical Guidance Concentrations
ThOD – Theoretical Oxygen Demand TLM - Median Tolerance Limit
TLV - Threshold Limit Value
TPRD - Trumpalaikio Poveikio Ribinis Dydis
TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern*

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Dangerous Goods

IPRV - Ilgalaikio Poveikio Ribinis Dydis
IOELV – Indicative Occupational Exposure Limit
Value LC50 - Median Lethal Concentration
LD50 - Median Lethal Dose
LOAEL - Lowest Observed Adverse Effect
Level LOEC - Lowest-Observed-Effect
Concentration
Log Koc - Soil Organic Carbon-water Partitioning
Coefficient Log Kow - Octanol/water Partition
Coefficient
Log Pow - Ratio of the equilibrium concentration (C) of a dissolved
substance in a two-phase system consisting of two largely
immiscible solvents, in this case octanol and water
MAK – Maximum Workplace Concentration/Maximum Permissible
Concentration

TRGS 552 – Technische Regeln für Gefahrstoffe - N-
Nitrosamine
TRGS 900 - Technische Regel für Gefahrstoffe 900 –
Arbeitsplatzgrenzwerte TRGS 903 - Technische Regel für
Gefahrstoffe 903 - Biologische Grenzwerte TSCA - Toxic
Substances Control Act
TWA - Time Weighted
Average VOC – Volatile
Organic Compounds
VLA-EC - Valor Límite Ambiental Exposición de
Corta Duración VLA-ED - Valor Límite Ambiental
Exposición Diaria
VLE – Valeur Limite D'exposition
VME – Valeur Limite De Moyenne
Exposition vPvB - Very Persistent and
Very Bioaccumulative WEL –
Workplace Exposure Limit
WGK - Wassergefährdungsklasse

EU GHS SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.