

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 11.04.2022

Version 2

Revision: 11.04.2022

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

1.1 Product identifier

Trade name: INSEBO 2K-Rapidschaum

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

1.3 Details of the supplier of the safety data sheet

WS INSEBO GmbH
Industriestraße 24, A-2325 Himberg bei Wien
Tel.: +43 (0) 2235/86227-0
Fax: +43 (0) 2235/86020
e-mail: office@insebo.com

1.4 Emergency telephone number: Call local emergency information.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Carc. 2 H351 Suspected of causing cancer.

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07 GHS08

Signal word Danger

Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomeres and homologues

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P260 Do not breathe spray.

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

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P284 Wear respiratory protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 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.
 P362+P364 Take off contaminated clothing and wash it before reuse.

Additional safetyphrases according to Annex XVII of the Commission Regulation No.1907/2006:

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

As from 24 August 2023 adequate training is required before industrial or professional use.

2.3 Other hazards Danger of serious damage to health by prolonged exposure.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:		
CAS: 9016-87-9	diphenylmethanediisocyanate, isomeres and homologues Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	15 - 49%
EC number: 926-564-6 Reg.No.: 01-2119971810-36	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol, propoxylated Acute Tox. 4, H302	4 - 15%
CAS: 13674-84-5 EINECS: 237-158-7	tris(2-chloro-1-methylethyl) phosphate Acute Tox. 4, H302	4 - 15%
CAS: 3030-47-5 EINECS: 221-201-1 Index number: 612-109-00-6 Reg.No.: 01-2119979537-18	bis(2-dimethylaminoethyl)(methyl)amine Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Acute Tox. 4, H302; Aquatic Chronic 3, H412	0.1 - 0.25%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: In case of accident or if you feel unwell seek medical advice (show label where possible).

After inhalation:

Remove person to fresh air and keep comfortable for breathing.

Seek immediate medical advice.

In case of unconsciousness place patient stably in side position for transportation.

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In case of breathing difficulties apply oxygen.

After skin contact:

Remove contaminated clothes immediately, wash the affected skin thoroughly with plenty of water.

In case of irritation seek medical treatment.

After eye contact: Rinse opened eyes for at least 15 minutes under running water and consult a doctor.

After swallowing:

Rinse out mouth with water. Do NOT induce vomiting. Seek medical advice and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

MDI:

Inhalation: irritation of the respiratory tract, cough, dyspnea, breathing difficulties, asthma

Skin contact: irritation, erythema

Eye contact: pain or irritation, lacrimation, redness

Ingestion: irritation of the gastrointestinal tract

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

Extinguishing powder, alcohol-resistant foam, carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

Hydrogen bromide, hydrogen cyanide (prussic acid)

5.3 Advice for firefighters

Protective equipment:

In the case of fire wear self-contained respiratory equipment and protective suit.

Do not inhale explosion gases or combustion gases.

Additional information

Cool endangered receptacles with water spray. Contain runoff to prevent entry into water or drainage systems.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Please notice instructions for person-related safety precautions, wear protective equipment (see 8.)

Keep people at a distance and stay on the windward side.

Ensure adequate ventilation.

6.2 Environmental precautions:

Do not allow to enter sewers, surface or ground water.

Advise water authority in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Cover with sand or damp soil.

Allow to solidify and remove mechanically.

Dispose contaminated material as waste according to item 13.

Remove residues using PU foam cleaner.

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6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

While handling pay attention to the usual precaution for chemicals.
Comply with instructions for use.
Avoid any contact with skin, eyes and clothes.
Do not breathe fumes/aerosol.
Wash hands before break and at the end of work.

Information about fire - and explosion protection:

Keep respiratory protective device available.
Keep ignition sources away.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in tightly closed original containers in a cool and well ventilated place.

Information about storage in one common storage facility:

Do not store food, beverages and animal feeding stuffs in the storage area.

Further information about storage conditions:

Keep container tightly sealed.
Keep out of the reach of children and domestic animals.

7.3 Specific end use(s) Sealant

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

MAK (Austria)	Short-term value: 0.1 mg/m ³ , 0.01 ppm; Long-term value: 0.05 mg/m ³ , 0.005 ppm Gruppeneintrag Diphenylmethan-diisocyanat
AGW (Germany)	Long-term value: 0.05 E mg/m ³ ; 1;=2=(I);DFG, H, Sah, Y, 12

Regulatory information

MAK (Austria): GKV 2020, 156. Verordnung, 09.04.2021, Teil II
AGW (Germany): TRGS 900

DNELs:

diphenylmethanediisocyanate (CAS 9016-87-9):
worker, short-term exposure - systemic effects, dermal 50 mg/kg bw/day
worker, short-term exposure - local and systemic effects, inhalation 0.1 mg/m³
worker, sort-term exposure - local effects, dermal 27.8 mg/kg
worker, long-term exposure - local and systemic effects, inhalation 0.05 mg/m³
consumer, short-term exposure - systemic effects, dermal 25 mg/kg bw/day
consumer, short-term exposure - local and systemic effects, inhalation 0.05 mg/m³
consumer, short-term exposure - systemic effects, oral 20 mg/kg bw/day
consumer, short-term exposure - local effects, dermal 17.2 mg/kg

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consumer, long-term exposure - local and systemic effects, inhalation 0.025 mg/m³

tris(2-chlor-1-methylethyl)phosphate (CAS 13674-84-5):

worker, DNEL, long-term exposure - systemic effects, inhalation 5,82 mg/m³

worker, DNEL, short-term exposure - systemic effects, inhalation 22,4 mg/m³

worker, DNEL, long-term exposure - systemic effects, dermal 2,08 mg/kg bw

worker, DNEL, short-term exposure - systemic effects, dermal 8 mg/kg bw

consumer, DNEL, long-term exposure - systemic effects, inhalation 1,46 mg/m³

consumer, DNEL, short-term exposure - systemic effects, inhalation 11,2 mg/m³

consumer, DNEL, long-term exposure - systemic effects, dermal 1,04 mg/kg bw

consumer, DNEL, short-term exposure - systemic effects, dermal 4 mg/kg bw

consumer, DNEL, long-term exposure - systemic effects, oral 0,52 mg/kg bw

PNECs:

diphenylmethanediisocyanate (CAS 9016-87-9):

freshwater 1 mg/l, marine water 0.1 mg/l;

intermittent release 10 mg/l; STP 1 mg/l; soil 1 mg/kg

tris(2-chlor-1-methylethyl)phosphate (CAS 13674-84-5):

freshwater 0.64 mg/l, marine water 0.064 mg/l

sediment (dry weight): freshwater 13.4 mg/kg, marine water 1.34 mg/kg

STP 7.84 mg/l; soil 1.7 mg/kg (dw), intermittent release 0.51 mg/l

Ingredients with biological limit values:

Additional information: Based on actual legally binding lists.

8.2 Exposure controls

Appropriate engineering controls Provide sufficient ventilation, particularly in closed areas.

Individual protection measures, such as personal protective equipment**General protective and hygienic measures:**

Avoid unnecessary contact with the product. Do not eat, drink or smoke at workplace and keep it tidy.

Remove contaminated clothing immediately and wash carefully before reuse.

Wash hands before break and at the end of work.

Respiratory protection:

Use protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) in case of insufficient ventilation.

Hand protection

Chemical resistant gloves (EN 374)

Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.

Material of gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Butyl, nitrile; penetration time: ≥ 240 minutes

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Eye/face protection



Tightly sealed goggles (EN 166)

Ensure eye bath is to hand.

Body protection: Protective work clothing

Environmental exposure controls

Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Fluid
Colour:	Beige
Odour:	Characteristic
Odour threshold:	Not determined
Melting point/freezing point:	< 0 °C (MDI, ISO 3016)
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available.
Lower and upper explosion limit:	No data available.
Flash point:	> 93 °C
Decomposition temperature:	No data available.
pH:	No data available
Viscosity	
dynamic:	≥ 200 mPas (MDI, DIN 53019, 20 °C)
kinematic:	No data available.
Solubility	
water:	Insoluble; reacts with water
Partition coefficient, n-octanol/water:	No data available.
Vapour pressure:	< 0,00001 hPa (MDI)
Relative density:	1.1 - 1.25

9.2 Other information

Explosive properties:	No data available
Oxidising properties:	No data available.

Information with regard to physical hazard classes

Explosives	Void
	Void
Flammable gases	Void
	Void
Aerosols	Void
	Void
Oxidising gases	Void
	Void

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Gases under pressure	Void
	Void
Flammable liquids	Void
	Void
Flammable solids	Void
	Void
Self-reactive substances and mixtures	Void
	Void
Pyrophoric liquids	Void
	Void
Pyrophoric solids	Void
	Void
Self-heating substances and mixtures	Void
	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
	Void
Oxidising liquids	Void
	Void
Oxidising solids	Void
	Void
Organic peroxides	Void
	Void
Corrosive to metals	Void
	Void
Desensitised explosives	Void
	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability Stable under usual conditions.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Water-reactive: reacts with water or moisture forming heat and flammable/toxic gases

10.4 Conditions to avoid Humidity, heat, direct sunlight, flames, hot surfaces.

10.5 Incompatible materials: Strong oxidising agents, water, alcohols, amines.

10.6 Hazardous decomposition products:

Formation of toxic gases when heated or in case of fire: hydrogen bromide, hydrogen cyanide

SECTION 11: Toxicological information

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

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

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LD/LC50 values relevant for classification:
CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

oral	LD50	> 10,000 mg/kg (rat, male) (OECD 401)
dermal	LD50	> 9,400 mg/kg (rabbit) (OECD 402)

2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol, propoxylated

oral	LD50	732 mg/l (rat)
dermal	LD50	> 2000 mg/kg (rat)

CAS: 13674-84-5 tris(2-chloro-1-methylethyl) phosphate

oral	LD50	632 mg/l (rat)
dermal	LD50	> 2,000 mg/kg (rat)
inhalative	LC50/4h	> 7 mg/l (rat)

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

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

Carcinogenicity Suspected of causing cancer.

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

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

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

11.2 Information on other hazards
Endocrine disrupting properties

Taking into account the current state of scientific knowledge, no data on endocrine disrupting properties of the product are available.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

LC50/96h (static)	> 1,000 mg/l (zebrafish, Danio rerio) (OECD 203)
EC50/24h (static)	> 1,000 mg/l (water flea, Daphnia magna) (OECD 202)
EC50/72h (static)	> 1,640 mg/l (algae) (OECD 201)
NOEC/21d	≥ 10 mg/l (water flea, Daphnia magna) (OECD 211)

2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol, propoxylated

EC50/48	> 100 mg/l (water flea, Daphnia magna)
ErC50/72h	> 100 mg/l (alga, Desmodesmus subspicatus)
LC50/96h	> 100 mg/l (fish)

CAS: 13674-84-5 tris(2-chloro-1-methylethyl) phosphate

EC50/48h	> 100 mg/l (water flea, Daphnia magna)
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12.2 Persistence and degradability

MDI: not readily biodegradable.

test: aerobic, inoculum: activated sludge

degradability: 0 %, 28 days (OECD Guideline 302 C)

12.3 Bioaccumulative potential

MDI:

bioconcentration factor (BCF): <14 (OECD Guideline 305)

(Cyprinus carpio, exposure time 42 d, concentration 0.2 mg/l)

No significant accumulation in organisms, the substance hydrolyses violently in water.

12.4 Mobility in soil Readily absorbed into soil.

12.5 Results of PBT and vPvB assessment Not applicable.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Isocyanate reacts with water at the interface forming CO₂ and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by water-soluble solvents. Previous experience shows that polyurea is inert and non-degradable.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Do not dispose waste or remains together with domestic waste, do not empty into sink or toilet, hand over to hazardous waste disposers.

European waste catalogue

08 04 09: waste adhesives and sealants containing organic solvents or other dangerous substances

08 05 01: waste isocyanates

15 01 10: Packaging containing residues of or contaminated by dangerous substances

Uncleaned packaging

Recommendation:

Disposal must be made according to official regulations.

Not completely emptied packaging is to be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA

Void

14.2 UN proper shipping name

ADR, IMDG, IATA

Void

14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class

Void

14.4 Packing group

ADR, IMDG, IATA

Void

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14.5 Environmental hazards:	Not applicable.
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14.6 Special precautions for user	Not required.
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14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
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UN "Model Regulation":	Void
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SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 Annex XVII Conditions of restriction: 3

National regulations: -

Water hazard class: Water hazard class (German Regulation) 1 (self-assessment): slightly hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.
EUH204 Contains isocyanates. May produce an allergic reaction.

Further information:

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008: Calculation method

Date of previous version: 27.05.2021

Abbreviations and acronyms:

CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CAS: Chemical Abstracts Service (division of the American Chemical Society)
EINECS: European Inventory of Existing Commercial Chemical Substances
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
MAK: maximum concentration of a chemical substance in the workplace
AGW: occupational exposure limit
EC50: maximal effective concentration, 50%

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ErC50: median effective concentration for growth rate (algae)
LC50: lethal concentration, 50%
LD50: lethal dose, 50%
NOEL/NOEC: No Observed Effect Concentration
PBT: persistent, bioaccumulative and toxic properties
vPvB: very persistent and very bioaccumulative properties
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Data compared to the previous version altered: Section 2, 8