

SAFETY DATA SHEET

BPS 7726

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

1.1. Product identifier

Trade name

BPS 7726

Product no.

7726

Unique formula identifier (UFI)

XA20-00JF-D005-G7F8

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

Relevant identified uses of the substance or mixture

Impregnating agent

▼ Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

Trion Tensid AB

Svederusgatan 1-3

SE-75450 Uppsala

Sweden

+46 18 15 61 90

www.trion.se

▼ Contact person

William Stomilovic

E-mail

info@trion.se

Revision

30/09/2022

SDS Version

3.0

Date of previous version

16/12/2021 (2.0)

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flam. Liq. 3; H226, Flammable liquid and vapour.

2.2. Label elements

Hazard pictogram(s)



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Signal word

Warning

Hazard statement(s)

Flammable liquid and vapour. (H226)

Safety statement(s)

General

-

Prevention

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

▼ Response

In case of fire: Use to extinguish. (P370+P378)

Storage

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

▼ Disposal

Dispose of contents/container . (P501)

▼ Hazardous substances

None known.

▼ Additional labelling

Not applicable.

2.3. Other hazards

▼ Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

Inhalation of aerosol mist may cause damage to health.

The product is hydrolyzed to form ethanol (CAS No. 64-17-5). Ethanol is classified for physical risks and health risks. The rate of hydrolysis and thus also the relevance to the product's risk potential depends to a large extent on the specific conditions.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

▼ 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
triethoxy(2,4,4-trimethylpentyl)silane	CAS No.: 35435-21-3 EC No.: 252-558-1 UK-REACH: Index No.:	95-100%	Flam. Liq. 3, H226	
ethanol	CAS No.: 64-17-5 EC No.: 200-578-6 UK-REACH: Index No.:	1-3%	Flam. Liq. 2, H225	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

▼ Other information

-

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Upon irritation of the eye: Remove contact lenses and open eyes widely. Flush eyes with water or saline water(20-30°C) for at least 5 minutes. Seek medical assistance and continue flushing during transport.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

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

None known.

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

None known.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

▼ 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO₂)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

6.2. Environmental precautions

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Avoid discharge to lakes, streams, sewers, etc.

▼ 6.3. **Methods and material for containment and cleaning up**

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

▼ 6.4. **Reference to other sections**

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ground and bond container and receiving equipment.

Use explosion-proof [electrical/lighting/ventilating] equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Because of the danger of self-ignition, any waste from the product, spray mist and soiled rags etc. are to be kept in a fire-proof place in air-tight containers, alternatively the waste is to be burned.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Take action to prevent static discharges.

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

4 - 25 Celcius

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

—
ethanol

Long term exposure limit (8 hours) (ppm): 1000

Long term exposure limit (8 hours) (mg/m³): 1920

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

▼ **DNEL**

ethanol

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	206 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	343 mg/kg bw/day

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Long term – Systemic effects - General population	Inhalation	114 mg/m ³
Long term – Systemic effects - Workers	Inhalation	950 mg/m ³
Short term – Local effects - General population	Inhalation	950 mg/m ³
Short term – Local effects - Workers	Inhalation	1900 mg/m ³
Long term – Systemic effects - General population	Oral	87 mg/kg bw/day

triethoxy(2,4,4-trimethylpentyl)silane

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	9,5 mg/kg/d
Long term – Systemic effects - Workers	Dermal	13,4 mg/kg/d
Short term – Systemic effects - General population	Dermal	19 mg/kg/d
Long term – Systemic effects - General population	Inhalation	11,3 mg/kbm
Long term – Systemic effects - Workers	Inhalation	45 mg/kbm
Short term – Systemic effects - General population	Inhalation	67,8 mg/kbm
Long term – Systemic effects - General population	Oral	9,5 mg/kg/d
Short term – Systemic effects - General population	Oral	19 mg/kg/d

▼ PNEC

ethanol

Route of exposure	Duration of Exposure	PNEC
Freshwater		960 µg/L
Freshwater sediment		3.6 mg/kg
Intermittent release (freshwater)		2.75 mg/L

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Marine water	790 µg/L
Marine water sediment	2.9 mg/kg
Predators	380-720 mg/kg
Sewage treatment plant	580 mg/L
Soil	630 µg/kg

triethoxy(2,4,4-trimethylpentyl)silane

Route of exposure	Duration of Exposure	PNEC
Freshwater		0,64 mg/l
Freshwater sediment		4,3 mg/kg dry substance
Intermittent release		6,4 mg/L
Marine water		0,064 mg/L
Marine water sediment		0,43 mg/kg dry substance
Sewage treatment plant		1 mg/L
Soil		0,48 mg/kg dry substance

▼ 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

▼ Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment

▼ Generally

Use only UKCA marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards
Respiratory protection is not needed in the event of adequate ventilation	-	-	-

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Skin protection

Recommended	Type/Category	Standards
No special when used as intended.	-	-

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	0,4	>480	EN374-2



Eye protection

Type	Standards
Wear safety glasses with side shields.	EN166



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Transparent

Odour / Odour threshold

Alcohol odor

pH

7

Density (g/cm³)

0.88

Kinematic viscosity

mPa.s

Particle characteristics

Does not apply to liquids.

Phase changes

▼ Melting point/Freezing point (°C)

-100,00000000

Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

▼ Boiling point (°C)

237

▼ Vapour pressure

Testing not relevant or not possible due to the nature of the product.

▼ Relative vapour density

Testing not relevant or not possible due to the nature of the product.

▼ Decomposition temperature (°C)

>150

Data on fire and explosion hazards

▼ Flash point (°C)

42

▼ Ignition (°C)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

105

▼ Auto flammability (°C)

251

▼ Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to the nature of the product.

Solubility

▼ Solubility in water

Testing not relevant or not possible due to the nature of the product.

▼ n-octanol/water coefficient

6.1

▼ Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

9.2. Other information

▼ Other physical and chemical parameters

No data available.

SECTION 10: Stability and reactivity

▼ 10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

▼ 10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Humidity, Heat, open flame and other heat sources

▼ 10.5. Incompatible materials

Reacts with: water, basic substances and acids. The reaction produces: ethanol.

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

In the case of hydrolysis: ethanol. Measurements have shown that at temperatures from 150 ° C an insignificant amount of formaldehyde is cleaved upon oxidative degradation.

SECTION 11: Toxicological information

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

Acute toxicity

Product/substance	triethoxy(2,4,4-trimethylpentyl)silane
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>2000 mg/kg ·
Other information	
Product/substance	triethoxy(2,4,4-trimethylpentyl)silane
Test method	
Species	Rat

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Route of exposure	Dermal
Test	LD50
Result	>2000 mg/kg ·
Other information	
Product/substance	triethoxy(2,4,4-trimethylpentyl)silane
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	>11,2 mg/L (4h) ·
Other information	
Product/substance	ethanol
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	7060 mg/kg ·
Other information	
Product/substance	ethanol
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	>20000 mg/kg ·
Other information	
Product/substance	ethanol
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	124,7 mg/L ·
Other information	

Skin corrosion/irritation

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

Serious eye damage/irritation

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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

Respiratory sensitisation

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

Skin sensitisation

Product/substance	triethoxy(2,4,4-trimethylpentyl)silane
Test method	
Species	Guinea pig
Result	No adverse effect observed (not sensitising)
Other information	

Germ cell mutagenicity

Product/substance	triethoxy(2,4,4-trimethylpentyl)silane
Test method	
Species	
Conclusion	No adverse effect observed
Other information	
Product/substance	triethoxy(2,4,4-trimethylpentyl)silane
Test method	
Species	
Conclusion	No adverse effect observed
Other information	

Carcinogenicity

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

▼ Reproductive toxicity

Product/substance	triethoxy(2,4,4-trimethylpentyl)silane
Test method	
Species	Rat
Duration	
Test	OECD 422
Result	NOAEL ≥ 1000 mg/kg
Conclusion	
Other information	
Product/substance	triethoxy(2,4,4-trimethylpentyl)silane
Test method	
Species	Rat
Duration	

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Test	OECD 414
Result	NOAEL \geq 1000 mg/kg
Conclusion	
Other information	

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Hydrolysis Product / Contamination: Ethanol (64-17-5) is rapidly and well absorbed through all routes of exposure. Ethanol can cause irritation to the eyes and mucous membranes and cause central nervous system disorders, nausea and dizziness. Chronic exposure to larger amounts of ethanol can lead to liver and central nervous system damage.

11.2. Information on other hazards

▼ Long term effects

None known.

▼ Endocrine disrupting properties

None known.

Other information

ethanol has been classified by IARC as a group 1 carcinogen.

SECTION 12: Ecological information

▼ 12.1. Toxicity

Product/substance	triethoxy(2,4,4-trimethylpentyl)silane
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	>100 mg/L
Other information	
Product/substance	triethoxy(2,4,4-trimethylpentyl)silane
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	> max achievable concentration ·

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Other information	
Product/substance	triethoxy(2,4,4-trimethylpentyl)silane
Test method	
Species	Daphnia
Compartment	
Duration	21 days
Test	NOEC
Result	32 mg/l (measured)>max achievable concentration ·
Other information	
Product/substance	ethanol
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	13500 mg/L ·
Other information	
Product/substance	ethanol
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	5400 mg/L ·
Other information	
Product/substance	ethanol
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	IC50
Result	>10,9 mg/L ·
Other information	

12.2. Persistence and degradability

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product/substance	triethoxy(2,4,4-trimethylpentyl)silane
Biodegradable	Yes
Test method	
Result	
Product/substance	ethanol
Biodegradable	Yes
Test method	OECD 301 D
Result	85%

▼ 12.3. Bioaccumulative potential

Product/substance	triethoxy(2,4,4-trimethylpentyl)silane
Test method	
Potential bioaccumulation	No
LogPow	6,1000
BCF	No data available.
Other information	
Product/substance	ethanol
Test method	
Potential bioaccumulation	No
LogPow	-0,3200
BCF	0.66
Other information	

▼ 12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

▼ 12.6. Endocrine disrupting properties

None known.

▼ 12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

▼ 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 3 - Flammable

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

After dilution with water, small quantities are permitted to go to water treatment plants. Empty packages and

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

product residues must be handled in an environmentally correct manner according to applicable laws and provisions. The company is affiliated to REPA. Do not attempt to refill or clean the package.

EWC code

08 02 99 Wastes not otherwise specified

▼ Specific labelling

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information



	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

▼ Additional information

Not dangerous goods according to ADR, IATA and IMDG.

▼ 14.6. Special precautions for user

Not applicable.

Road transport: No dangerous substance of class 3 - ADR / RID 2.2.3.1.1 note. 1 - The substance does not promote combustion!

Rail transport: No dangerous substance of Class 3 - ADR / RID 2.2.3.1.1 note. 1 - The substance does not promote combustion!

Sea transport: No hazardous substance belonging to class 3 - IMDG 2.3.1.3 - the substance does not promote combustion!

Air transport: No hazardous substance belonging to class 3 - IATA 3.3.1.3 / ICAO 3.1.3 - the substance does not promote combustion!

For safety reasons, no air transport in the Intermediate Bulk Container (IBC) or ventilated packaging!

Relevant information in other sections must be taken into account.

▼ 14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

▼ Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

P5c - FLAMMABLE LIQUIDS, Qualifying quantity (lower-tier): 5.000 tonnes / (upper-tier): 50.000 tonnes

▼ Additional information

Not applicable.

▼ Sources

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Control of Major Accident Hazards (COMAH) Regulations 2015.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H225, Highly flammable liquid and vapour.

H226, Flammable liquid and vapour.

▼ Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

▼ Additional information

The classification of the mixture in regard to physical hazards has been based on experimental data.

▼ The safety data sheet is validated by

William Stomilovic

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en