SAFETY DATA SHEET

X-TACK

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	30.06.2009
Revision date	27.09.2024

1.1. Product identifier

Product name	X-TACK
Article no.	T534525, T534515

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

Use of the substance / mixture	Glue.

1.3. Details of the supplier of the safety data sheet

Downstream user

Company name	Relekta AS
Office address	Innspurten 1A
Postal address	Postboks 6169 Etterstad
Postcode	0663
City	Oslo
Country	Norway
Telephone number	+47 22 66 04 00
Fax	+47 22 66 04 01
Email	post@relekta.no
Website	www.relekta.no
Enterprise No.	NO 831 881 372

1.4. Emergency telephone number

Emergency telephone	Telephone number: +47 22 59 13 00 Description: Norwegian Poison Information Center Telephone number: 112 Description: Within Sweden: Ask for Poison Information

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP classification, notes	Classification according to (EC) No.1272/2008: Not classified.

2.2. Label elements

Supplemental label information	EUH 208 Contains N-(3-(trimethoxysilyl)propyl)ethylenediamineandTrimethoxyvinylsilane. May cause allergic reaction.

2.3. Other hazards

PBT / vPvB	The mixture does not meet current criteria for PBT (Persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative).
Other hazards	None of the substances listed in section 3.2 is listed on ECHA's Endocrine disruptor assessment list.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Trimethoxyvinylsilane	CAS No.: 2768-02-7 EC No.: 220-449-8	Flam. Liq. 3; H226 Skin Sens. 1B; H317	> 0,1 < 1 %	

Substance comments	See section 16 for explanation of hazard statements (H) listed above. For substances without REACH registration number, no information has been provided by the subcontractor or manufacturer.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Emergency telephone number: see section 1.4.
Inhalation	Fresh air and rest. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Wash the skin immediately with soap and water. Consult a doctor if symptoms should occur.
Eye contact	Promptly rinse eyes with plenty of water (tempered at 20-30°C) for at least 15 minutes. Remove contact lenses and open eyes wide apart. Contact physician if discomfort continues.
Ingestion	Rinse mouth thoroughly. Give some cream or vegetable oil. Do not induce vomiting. Seek medical advice.

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

Acute symptoms and effects	The chemical contains small amount of allergy-causing material which may give rise to allergy to sensitive persons. Allergic skin reactions: symptoms may include redness, swelling, blistering and itching.

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

Other information	Treat symptomatically. No specific information from the manufacturer.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry-powder, carbon dioxide (CO2), water mist, foam.
Improper extinguishing media	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The chemical is not classified as flammable.
Hazardous combustion products	May develop highly toxic or corrosive fumes if heated. May include, but is not limited to: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrous gases (NOx).

5.3. Advice for firefighters

Personal protective equipment	Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8.
Other information	Use water spray to cool the containers. Remove containers from fire area if this can be done without risk. Extinguishing water must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Keep away from sources of ignition - No smoking.
Personal protection measures	Use protective equipment as referred to in section 8. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautionary measures	Do not allow to enter into sewer, water system or soil.

6.3. Methods and material for containment and cleaning up

Clean up	Scrape up spillage or absorb with absorbing material. Collect in suitable containers and deliver as waste according to section 13. Flush with plenty of water to clean spillage area.

6.4. Reference to other sections

Other instructions	See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Provide adequate ventilation. Use protective equipment as referred to in section 8.

	Avoid contact with eyes and skin.

Protective safety measures

Safety measures to prevent fire	Keep away from heat / sparks / open flames / hot surfaces. — No smoking.
Advice on general occupational hygiene	Do not eat, drink or smoke during work. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container in a dry, cool and well-ventilated place.
Conditions to avoid	Do not store near heat sources or exposed to high temperatures. Water, moisture.

Conditions for safe storage

Advice on storage compatability	Keep away from food and drink.

7.3. Specific end use(s)

Specific use(s)	See section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Control parameters comments	Contains no substances with occupational exposure limit values. References (laws/regulations): Norwegian regulation on exposure limits: FOR 2011-12-06 nr. 1358 Forskrift om tiltaks- og grenseverdier (sist endret gjennom FOR-2024-05-15-782).. Swedish regulation on exposure limits: Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden, "Hygieniska gränsvärden", AFS 2018:1

DNEL / PNEC

DNEL	Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 260 mg/m³ Comments: Applies to CAS-nr.: 1760-24-3. Group: Professional Route of exposure: Acute inhalation (systemic) Value: 260 mg/m³ Comments: Applies to CAS-nr.: 1760-24-3. Group: Consumer Route of exposure: Long-term inhalation (systemic) Value: 50 mg/m³ Comments: Applies to CAS-nr.: 1760-24-3. Group: Consumer Route of exposure: Acute inhalation (systemic) Value: 50 mg/m³ Comments: Applies to CAS-nr.: 1760-24-3.

	Group: Consumer Route of exposure: Long-term oral (systemic) Value: 8 mg/kg bw/day Comments: Applies to CAS-nr.: 1760-24-3.
PNEC	Route of exposure: Freshwater Value: 0,062 mg/l Comments: Applies to CAS-nr.: 1760-24-3. Route of exposure: Saltwater Value: 0,006 mg/l Comments: Applies to CAS-nr.: 1760-24-3. Route of exposure: Water Value: 0,62 mg/l Reference: Intermittent release. Comments: Applies to CAS-nr.: 1760-24-3. Route of exposure: Sewage treatment plant STP Value: 25 mg/l Comments: Applies to CAS-nr.: 1760-24-3. Route of exposure: Freshwater sediments Value: 0,22 mg/kg dw Comments: Applies to CAS-nr.: 1760-24-3. Route of exposure: Saltwater sediments Value: 0,022 mg/kg dw Comments: Applies to CAS-nr.: 1760-24-3. Route of exposure: Soil Value: 0,009 mg/kg dw Comments: Applies to CAS-nr.: 1760-24-3.
Substance	Trimethoxyvinylsilane
DNEL	**Group:** Professional **Route of exposure:** Long-term inhalation (systemic) **Value:** 27,6 mg/m³ **Group:** Professional **Route of exposure:** Long-term dermal (systemic) **Value:** 3,9 mg/kg bw/day **Group:** Consumer **Route of exposure:** Long-term inhalation (systemic) **Value:** 18,9 mg/m³ **Group:** Consumer **Route of exposure:** Long-term dermal (systemic) **Value:** 7,8 mg/kg bw/day **Group:** Consumer **Route of exposure:** Long-term oral (systemic) **Value:** 0,3 mg/kg bw/day

8.2. Exposure controls

Precautionary measures to prevent exposure

Technical measures to prevent exposure	Provide adequate ventilation. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment. A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipment's suitability and durability will depend on application.

Eye / face protection

Eye protection equipment	Description: Risk of splashes: Wear tight-fitting goggles or face shield. Reference to relevant standard: EN ISO 16321-1:2022 (Eye and face protection for occupational use - Part 1: General requirements).
Additional eye protection measures	Eye wash facilities should be available at the work place. Either a fixed eye wash facility connected to the drinking water (preferably warm water) or a portable disposable unit.

Hand protection

Suitable gloves type	Rubber (natural, latex). Nitrile. Polyvinyl alcohol (PVA).
Breakthrough time	Comments: No specific information from the manufacturer.
Thickness of glove material	Value: ≥ 0,4 mm
Hand protection equipment	Description: Use protective gloves that are suitable for the application. Glove thickness must be chosen in consultation with the glove supplier, who can inform about the breakthrough time for the glove. The gloves abilities may vary among the different glove manufacturers. Reference to relevant standard: EN ISO 374 (Protective gloves against chemicals and micro-organisms). EN ISO 21420:2020 (Protective gloves - General requirements and test methods).
Additional hand protection measures	Replace gloves if signs of wear and tear.

Skin protection

Recommended protective clothing	Description: Wear appropriate protective clothing to protect against skin contact.
Additional skin protection measures	Emergency shower should be available at the workplace.

Respiratory protection

Recommended respiratory protection	Description: Normally not required.

Appropriate environmental exposure control

Environmental exposure controls	Do not allow to enter into sewer, water system or soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Paste.
Colour	Varying.
Odour	Characteristic.
Odour limit	Comments: Not determined.
pH	Status: In delivery state Comments: Not relevant.
Melting point / melting range	Comments: Not determined.
Boiling point / boiling range	Comments: Not determined.
Flash point	Comments: Not combustible.
Evaporation rate	Comments: Not determined.
Flammability	Not relevant.
Explosion limit	Comments: Not relevant.
Vapour pressure	Comments: Not determined.
Vapour density	Comments: Not determined.
Relative density	Value: 1,4
Density	Value: 1400 kg/m³
Solubility	Medium: Water Comments: Insoluble.
Partition coefficient: n-octanol/ water	Comments: Not relevant for a mixture.
Auto-ignition temperature	Comments: Not determined.
Decomposition temperature	Comments: Not determined.
Viscosity	Comments: Not determined.
Explosive properties	Not explosive.
Oxidising properties	Not oxidizing.

9.2. Other information

Other physical and chemical properties

Physical and chemical properties	No further information is available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Heating may cause a fire.

10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal conditions.

10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid	Water/moisture.

10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.

SECTION 11: Toxicological information

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

Acute toxicity	Effect tested: LD50 Route of exposure: Oral Method: EPA OPPTS 870.1100 Value: 2295 mg/kg bw Species: Rat Comments: Applies to CAS-nr.: 1760-24-3. Effect tested: LD50 Route of exposure: Dermal Method: EPA OPPTS 870.7600 Duration: 24 hour(s) Value: > 2000 mg/kg bw Species: Rabbit Comments: Applies to CAS-nr.: 1760-24-3. Effect tested: LC50 Route of exposure: Inhalation. (mist) Method: OECD 403 Duration: 4 hour(s) Value: 1,49 - 2,44 mg/l Species: Rat Comments: Applies to CAS-nr.: 1760-24-3.
Substance	Trimethoxyvinylsilane
Acute toxicity	**Effect tested:** LD50 **Route of exposure:** Oral **Method:** OECD 401 **Value:** 6899 - 7012 mg/kg bw **Animal test species:** Rat **Effect tested:** LD50 **Route of exposure:** Dermal

	Method: OECD 402 **Duration:** 24 hour(s) **Value:** 3158 - 3760 mg/kg bw **Animal test species:** Rabbit **Effect tested:** LC50 **Route of exposure:** Inhalation (vapour) **Method:** OECD 403 **Duration:** 4 hour(s) **Value:** 16,8 mg/l **Animal test species:** Rat
Other toxicological data	There are stated more test results by the producer. The results are negative except for those tests that support the already given classification of the substances (see section 3).

Other information regarding health hazards

Assessment of acute toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of skin corrosion / irritation, classification	Based on available data, the classification criteria are not met.
Assessment of eye damage or irritation, classification	Based on available data, the classification criteria are not met.
Assessment of respiratory sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of skin sensitisation, classification	Based on available data, the classification criteria are not met. The chemical contains small amount of allergy-causing material which may give rise to allergy to sensitive persons.
Assessment of germ cell mutagenicity, classification	Based on available data, the classification criteria are not met.
Assessment of carcinogenicity, classification	Based on available data, the classification criteria are not met.
Assessment of reproductive toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - single exposure, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - repeated exposure, classification	Based on available data, the classification criteria are not met.
Assessment of aspiration hazard, classification	Based on available data, the classification criteria are not met.

Symptoms of exposure

In case of ingestion	No specific information from the manufacturer.
In case of skin contact	The chemical contains small amount of allergy-causing material which may give rise to allergy to sensitive persons. Allergic skin reactions: symptoms may include redness, swelling, blistering and itching.
In case of inhalation	No specific information from the manufacturer.

In case of eye contact	No specific information from the manufacturer.

11.2 Other information

Endocrine disruption	None of the substances listed in section 3.2 is listed on ECHA's Endocrine disruptor assessment list.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, fish	Toxicity type: Acute Value: 597 mg/l Effect dose concentration: LC50 Test duration: 96 hour(s) Species: Danio rerio Method: EU Methode C.1 Comments: Applies to CAS-nr.: 1760-24-3.
Substance	Trimethoxyvinylsilane
Aquatic toxicity, fish	**Toxicity type:** Acute **Value:** 191 mg/l **Effect dose concentration:** LC50 **Test duration:** 96 hour(s) **Species:** Oncorhynchus mykiss
Aquatic toxicity, algae	Toxicity type: Acute Value: 8,8 mg/l Effect dose concentration: ERC50 Test duration: 72 hour(s) Species: Pseudokirchneriella subcapitata Method: OECD 201 Comments: Applies to CAS-nr.: 1760-24-3. Value: 3,1 mg/l Effect dose concentration: NOEC Test duration: 72 hour(s) Species: Pseudokirchneriella subcapitata Method: OECD 201 Comments: Applies to CAS-nr.: 1760-24-3.
Substance	Trimethoxyvinylsilane
Aquatic toxicity, algae	**Toxicity type:** Acute **Value:** > 89 mg/l **Effect dose concentration:** ERC50 **Test duration:** 72 hour(s) **Species:** Pseudokirchneriella subcapitata **Toxicity type:** Acute **Value:** > 89 mg/l **Effect dose concentration:** NOEC **Test duration:** 72 hour(s) **Species:** Pseudokirchneriella subcapitata
Aquatic toxicity, crustacean	Toxicity type: Acute

	Value: 81 mg/l Effect dose concentration: EC50 Test duration: 48 hour(s) Species: Daphnia magna Method: EU Method C.2 Comments: Applies to CAS-nr.: 1760-24-3.
Substance	Trimethoxyvinylsilane
Aquatic toxicity, crustacean	**Toxicity type:** Acute **Value:** 168,7 mg/l **Effect dose concentration:** EC50 **Test duration:** 48 hour(s) **Species:** Daphnia magna **Method:** EU Method C.2 **Toxicity type:** Chronic **Value:** 28,1 mg/l **Effect dose concentration:** NOEC **Test duration:** 21 day(s) **Species:** Daphnia magna **Method:** OECD 211
Ecotoxicity	The chemical is not classified as harmful to the environment.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	Contain substance(s) which is considered readily biodegradable.
Biodegradability	Value: 39 % Method: EU Method C.4 Comments: Applies to CAS-nr.: 1760-24-3. Test period: 28 day(s)
Substance	Trimethoxyvinylsilane
Biodegradability	**Value:** 51 % **Method:** OECD 301 F **Test period:** 28 day(s)

12.3. Bioaccumulative potential

Bioaccumulation, comments	The chemical does not contain any substances that are considered bioaccumulative. Log Kow: -0,3 @ 20 °C. Applies to CAS-nr.: 1760-24-3. Log Kow: 1,1 @ 20°C. Applies to CAS-nr.: 2768-02-7.

12.4. Mobility in soil

Mobility	Insoluble in water. The chemical is absorbed into soil. Contains component(s) with the potential for mobility in soil.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	The mixture does not meet current criteria for PBT (Persistent, Bioaccumulative

	and Toxic) or vPvB (very persistent and very bioaccumulative).

12.6. Endocrine disrupting properties

Endocrine disrupting properties	None of the substances listed in section 3.2 is listed on ECHA's Endocrine disruptor assessment list.

12.7. Other adverse effects

Ozone depletion potential	Comments: The chemical contains no substances classified as hazardous to the ozone layer.
Additional ecological information	The chemical contains no substances which are known to contribute to the greenhouse effect. Do not allow to enter into sewer, water system or soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Dispose of on site landfill area. The waste code (EWC-Code) is intended as a guide. The user must select a code if the use differs from the one mentioned below.
EWC waste code	EWC waste code: 080410 waste adhesives and sealants other than those mentioned in 08 04 09 Classified as hazardous waste: No
EWL packing	EWC waste code: 150101 paper and cardboard packaging Classified as hazardous waste: No EWC waste code: 150102 plasticpackaging Classified as hazardous waste: No EWC waste code: 150104 metallicpackaging Classified as hazardous waste: No
Other information	Do not empty into drains.

SECTION 14: Transport information

Dangerous goods	No

14.1. UN number

Comments	Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

14.2. UN proper shipping name

Comments	Not relevant.

14.3. Transport hazard class(es)

Comments	Not relevant.

14.4. Packing group

Comments	Not relevant.

14.5. Environmental hazards

IMDG Marine pollutant	No

14.6. Special precautions for user

Special safety precautions for user	Not relevant.

14.7. Maritime transport in bulk according to IMO instruments

Ship type required	Data lacking.

SECTION 15: Regulatory information

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

Restriction of chemicals according to Annex XVII (REACH)	Contains substance(s) listed in REACH Annex XVII. The restriction is not relevant to this mixture and use.
References (laws/regulations)	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments. Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments. Swedish regulations on waste "Avfallsförordning (2020:614)" with later amendments. The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009.

15.2. Chemical safety assessment

Chemical safety assessment performed	No

SECTION 16: Other information

Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
List of relevant H-phrases (Section 2 and 3)	H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction.
CLP classification, comments	Calculation method.
Key literature references and sources for data	Suppliers Safety data sheet dated: 28.03.2022.
Abbreviations and acronyms used	ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road DNEL: Derived No Effect Level EWC: European Waste Code (a code from the EU's common classification system for waste) EC50: The effective concentration of substance that causes 50% of the

	maximum response ErC50: ErC50 means EC50 in terms og reduction of growth rate, (ErC50 = EC50(growth rate)) IATA: The International Air Transport Association ICAO: The International Civil Aviation Organisation IMDG: The International Maritime Dangerous Goods Code LC50: Median concentration lethal to 50% of a test population. LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%. NOEC: No observed effect concentration PBT: Persistent, Bioaccumulative and Toxic PNEC: Predicted No Effect Concentration RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail vPvB: very Persistent and very Bioaccumulative
Information added, deleted or revised	Section: 1 & 16.
Version	8
NOBB No.	42884974, 60154122