

SAFETY DATA SHEET Zettex Packing Sealer

Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name Zettex Packing Sealer

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

In sealing applications to be exposed to high temperature and / or high temperature changes in

automobiles, machinery, heating systems, industrial furnaces, chimneys etc.

1.3. Details of the supplier of the safety data sheet

Supplier Zettex Europe BV

Plaza 20, 4782 SK Moerdijk

The Netherlands +31(0)888-938839 info@zettex.nl www.zettex.nl

1.4. Emergency telephone number

Zettex: +31(0)888-938839

National emergency telephone

Email: director.birmingham.unit@npis.org

UK-National Poisons Information Service (NPIS)

number Website: http://www.npis.org/

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Aerosol 3 - H229

Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H229 Pressurised container: may burst if heated.

H315 Causes skin irritation. H318 Causes serious eye damage. Revision date: 07/12/2020 Revision: 0.1 Supersedes date: 07/12/2020



Zettex Packing Sealer

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Precautionary statements P102 Keep out of reach of children.

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

P251 Do not pierce or burn, even after use.

P264 Wash contaminated skin thoroughly after handling.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P501 Dispose of contents/ container in accordance with national regulations.

Contains triacetoxyethylsilane, methylsilanetriyl triacetate

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Norflurane (1,1,1,2-Tetrafluoroethane)	1-15	%
CAS number: 811-97-2	EC number: 212-377-0	

Classification

Press. Gas (Liq.) - H280

triace	etoxyethylsilane	1-5%
--------	------------------	------

CAS number: 17689-77-9 EC number: 241-677-4

Classification

Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318

methylsilanetriyl triacetate 1-5%

Classification

Acute Tox. 4 - H302 Skin Corr. 1C - H314

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Move affected person to fresh air at once. Get medical attention if any discomfort continues. Show this

Safety Data Sheet to the medical personnel.

In case of inhalation In case of inhalation of spray mist: Move person into fresh air and keep at rest. Provide rest, warmth and

fresh air. Get medical attention if any discomfort continues.



Commission Regulation (EU) No 2015/830 of 28 May 2015.

Ingestion Rinse mouth thoroughly with water. Do not induce vomiting unless under the direction of medical

personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never

give anything by mouth to an unconscious person.

Skin contact Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if

symptoms are severe or persist.

Eye contact Remove contact lenses, if present and easy to do. Continue rinsing. Promptly wash eyes with plenty of

water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if symptoms

are severe or persist after washing.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated

clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be

dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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

Inhalation Dizziness.

Ingestion Nausea, vomiting.

Skin contact No specific symptoms known.

Eye contact May cause temporary eye irritation.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide or dry powder. Water.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Aerosol cans may explode in a fire. In case of fire, toxic gases may be formed. Carbon monoxide (CO).

Carbon dioxide (CO2).

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Harmful gases or

vapours. Carbon monoxide (CO). Carbon dioxide (CO2).

5.3. Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapours. Evacuate area. Use water to keep fire exposed containers cool and disperse vapours. Avoid breathing fire gases or vapours. Move containers from fire area if it can be done

without risk. aware of danger for fire to restart. Dike and collect extinguishing water.

Special protective equipment for

firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and

gloves) will provide a basic level of protection for chemical incidents.



Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as

described in Section 8 of this safety data sheet. Do not touch or walk into spilled material. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact

with skin and eyes.

6.2. Environmental precautions

Environmental precautionsAvoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Eliminate all ignition sources

if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. If leakage cannot be stopped, evacuate

area.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. For

waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Keep away from food, drink and animal feeding stuffs.

Avoid exposing aerosol containers to high temperatures or direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid inhalation of vapours and

spray/mists. Use only in well-ventilated areas.

Advice on general occupational

hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the

toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed, in a cool, well ventilated place. Store locked up. Keep away from oxidising

materials, heat and flames. Keep only in the original container. Keep containers upright. Protect containers from damage. Protect from sunlight. Do not store near heat sources or expose to high

temperatures. Do not expose to temperatures exceeding 50°C/122°F.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.



Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Norflurane (1,1,1,2-Tetrafluoroethane)

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 4240 mg/m³

methylsilanetriyl triacetate

Long-term exposure limit (8-hour TWA): 10 ppm Short-term exposure limit (15-minute): 15 ppm

WEL = Workplace Exposure Limit.

Norflurane (1,1,1,2-Tetrafluoroethane) (CAS: 811-97-2)

DNEL Workers - Inhalation; Long term systemic effects: 13936 mg/m³

Consumer - Inhalation; Long term systemic effects: 2476 mg/m³

PNEC Fresh water; 0,1 mg/l

marine water; 0,01 mg/l

Sediment (Freshwater); 0,75 mg/kg

STP; 73 mg/l

8.2. Exposure controls

Protective equipment







Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Wear protective gloves made of the following material: Rubber (natural, latex). Polyvinyl chloride (PVC).

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.



Commission Regulation (EU) No 2015/830 of 28 May 2015.

Hygiene measures Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the

> workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the

product.

Respiratory protection Respiratory protection complying with an approved standard should be worn if a risk assessment

> indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European

Standard EN140.

Keep container tightly sealed when not in use. Environmental exposure controls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Aerosol. Colour Colourless. Odour Characteristic.

Odour threshold No information available.

рΗ No information available.

Melting point No information available.

Initial boiling point and range No information available.

No information available.

Flammability (solid, gas) No information available.

Upper/lower flammability or

explosive limits

Oxidising properties

Evaporation rate

Flash point

No information available.

No information available.

No information available.

Vapour pressure No information available. Relative density No information available. Solubility(ies) No information available. Partition coefficient No information available. Auto-ignition temperature No information available. No information available. **Decomposition Temperature** Viscosity No information available. **Explosive properties** No information available.



Commission Regulation (EU) No 2015/830 of 28 May 2015.

9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed

storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon monoxide (CO).

Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 10,416.67

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritationBased on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisationBased on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.



Commission Regulation (EU) No 2015/830 of 28 May 2015.

Carcinogenicity

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

IARC carcinogenicityNone of the ingredients are listed or exempt.

Reproductive toxicity

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

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Target organs Central nervous system

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

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

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous

effects on the environment.

12.1. Toxicity

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

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Do not empty into drains. Disposal of this product, process solutions, residues and by-products should at

all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Empty containers must not be punctured or incinerated because of the risk

of an explosion.



Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 14: Transport information

General For limited quantity packaging/limited load information, consult the relevant modal documentation using

the data shown in this section.

14.1. UN number

UN No. (ADR/RID) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

UN No. (ADN) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2.2

ADR/RID classification code 5A

ADR/RID label 2.2

IMDG class 2.2

ICAO class/division 2.2

ADN class 2.2

Transport labels



14.4. Packing group

ADR/RID packing group None

IMDG packing group None

ICAO packing group None

ADN packing group None



Commission Regulation (EU) No 2015/830 of 28 May 2015.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

Nο

14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS F-D, S-U

ADR transport category 3

Tunnel restriction code (E)

Limited quantities (ADR) 1L

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

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

SECTION 15: Regulatory information

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

National regulations Health and Safety at Work etc. Act 1974 (as amended).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI

2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.

The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006

concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as

amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on

classification, labelling and packaging of substances and mixtures (as amended).

Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to

aerosol dispensers (75/324/EEC) (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.



Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 16: Other information

in the safety data sheet

Abbreviations and acronyms used ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate.

LC₅o: Lethal Concentration to 50 % of a test population.

LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).

EC50: 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and

acronyms

Aerosol = Aerosol Eve Irrit. = Eve irritation

Skin Sens. = Skin sensitisation

Key literature references and

sources for data

Information and documents obtained from the owner company of product.

Source: European Chemicals Agency, http://echa.europa.eu/

Classification procedures according to Regulation (EC)

1272/2008

Aerosol 3 - H229: Calculation method. Skin Irrit. 2 - H315: Calculation method. Eye Dam. 1 - H318:

Calculation method.

Training advice Only trained personnel should use this material.

Revision comments SDS has been revised under the current regulations.

Issued by

Revision date 07/12/2020

Revision 0.1

Supersedes date 07/12/2020

SDS number 10851

Hazard statements in full H229 Pressurised container: may burst if heated.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation. H318 Causes serious eye damage.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.