

category 3

Respiratory sensitization, category 1

2K PU ADHESIVE - PART B

ΕN

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the sub	stance/mixture.an	d of the company/un	dertaking
1.1. Product identifier			aonaning
Product name: ETALON 2	K PU ADHESIVE / ET/PU-	9050	
1.2. Relevant identified uses of the substance or m	nixture and uses advised	against	
Intended use	Two components, poly	irethane based, adhesive.	
	Industrial	Professional	Consumer
SEALANTS AND ADHESIVES FORMULATIONS IN INDUSTRY	SU: 10. ERC: 2. PROC: 3, 4, 5, 8a, 8b, 9. PC: 1.	<u>.</u>	_
INDUSTRIAL APPLICATIONS OF SEALANTS	011, 47, 40		•
AND ADHESIVES	SU: 17, 19. ERC: 5, 8b. PROC: 10, 8a, 8b. PC: 1.	SU: 17, 19. ERC: 5, 8b. PROC: 10, 8a, 8b. PC: 1.	
CHEMICAL SUBSTANCE USE IN LABORATORY, INDUSTRIAL	PROC: 15. PC: 1, 21.	<u>.</u>	
1.3. Details of the supplier of the safety data sheet			
ETALON is a brand of Alexport Company. Pontou 26, P.C. 546 28, Thessaloniki, Greece, Tel: +30 2310 501814, Fax: +30 2310 524 771 info@alexport.gr, www.alexport.gr www.etalon-refinish.com			
1.4. Emergency telephone number			
For urgent inquiries refer to 122 or call yo	our local doctor/poison cent	ər	
SECTION 2. Hazards identification			
2.1. Classification of the substance or mixture			
The product is classified as hazardous pursuant to and supplements). The product thus requires a safe Any additional information concerning the risks for I	ety datasheet that complies	with the provisions of (EU) Re	egulation 2015/830.
Hazard classification and indication:			
Carcinogenicity, category 2	H351	Suspected of causing	cancer.
Acute toxicity, category 4	H332	Harmful if inhaled.	
Specific target organ toxicity - repeated exposur	re, H373	, ,	o organs through prolonged or
category 2	110.40	repeated exposure.	ritation
Eye irritation, category 2 Skin irritation, category 2	H319 H315	Causes serious eye ir Causes skin irritation.	
Skin irritation, category 2 Specific target organ toxicity - single exposure,	H315 H335	May cause respiratory	
category 3	L332	may cause respirator	y mattori.

H334

May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

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SECTION 2. Hazards identification ... / >>

Skin sensitization, category 1

H317

May cause an allergic skin reaction.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:	Danger
Hazard statements:	
H351	Suspected of causing cancer.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
EUH204	Contains isocyanates. May produce an allergic reaction.
Precautionary statements	
P304+P340	IF INHALED: remove person to fresh air and keep comfortable for breathing.
P201	Obtain special instructions before use.
P308+P313	IF exposed or concerned: Get medical advice / attention.
P284	[In case of inadequate ventilation] wear respiratory protection.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Contains: DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:Identificationx = Conc. %Classification 1272/2008 (CLP)DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.
CAS9016-87-9 $96 \le x < 100$ Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315,
STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317EC

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The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

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SECTION 4. First aid measures ... / >>

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away

SECTION 7. Handling and storage ... / >>

from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany):

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

TLV-ACGIH ACGIH 2019

Threshold Limit	Value				
Туре	Country	TWA/8h		STEL/15r	nin
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH			0,005		

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

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8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect your hands with work gloves, category III (ref. standard EN 374). For the final choice of material you need to assess the type of use. In case of contact for the short term or as protection against splashes, use gloves made of nitrile (0.3mm thickness, permeation time >480 min.). In the event of continued exposure use butyl rubber gloves (0.4mm thickness, permeation time > 480 min.). Contaminated gloves should be removed.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

In case of exceeding the threshold value (eg, TLV-TWA) of the substance or one or more of the substances present in the product, it is advisable to wear a mask with filter type A for organic vapors, the class (1, 2 or 3) must be chosen according to the limit concentration of use (1000, 5000 or 10000 ppm) (ref. standard EN 14387).

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Appearance Colour Odour Odour threshold pH Melting point / freezing point Initial boiling point Boiling range	Value liquid copper Not available Not available Not available Not available > 300 °C Not available	
Bolling range Flash point	Not available 205 °C	

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SECTION 9. Physical and chemical properties ... / >>

Evaporation rate Flammability (solid, gas) Lower inflammability limit Upper inflammability limit Lower explosive limit Upper explosive limit Vapour pressure Vapour density Relative density Solubility Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Oxidising properties 9.2. Other information	>	Not available Not available Not available Not available Not available 0,01 Pa Not available 1,17 Not available 600 °C Not available 3300 mPas Not available Not available
VOC (Directive 2010/75/EC) : VOC (volatile carbon) :		0 0

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

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SECTION 11. Toxicological information ... / >>

LC50 (Inhalation) of the mixture: LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture:

1,5 mg/l Not classified (no significant component) Not classified (no significant component)

DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES. LD50 (Oral) > 10000 mg/kg Rattus sp. LD50 (Dermal)

- > 9400 mg/kg Oryctolagus sp.
- 1,5 mg/l/4h Rattus sp.

SKIN CORROSION / IRRITATION

LC50 (Inhalation)

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin Sensitising for the respiratory system

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Suspected of causing cancer

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

12.1. Toxicity

DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES. > 1000 mg/l/96h Danio rerio LC50 - for Fish > 1640 mg/l/72h Scenedesmus subspicatus EC50 - for Algae / Aquatic Plants Chronic NOEC for Crustacea > 10 mg/l Daphnia magna

12.2. Persistence and degradability

DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES. NOT rapidly degradable

12.3. Bioaccumulative potential

Information not available

ΕN

SECTION 12. Ecological information ... / >>

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable 14.2. UN proper shipping name

Not applicable 14.3. Transport hazard class(es)

Not applicable 14.4. Packing group

Not applicable 14.5. Environmental hazards

Not applicable 14.6. Special precautions for user

Not applicable

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

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC:

None

Restrictions	relating to the	product or	contained	substances	pursuant to	Annex 2	XVII to	EC Rec	ulation	1907/200)6
Product	•	•			•			-			
Point		3									

<u>Substances in Candidate List (Art. 59 REACH)</u> On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH) None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

ΕN

SECTION 15. Regulatory information ... / >>

None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Carc. 2	2	Carcinogenicity, category 2					
Acute [·]	Tox. 4	Acute toxicity, category 4					
STOT RE 2		Specific target organ toxicity - repeated exposure, category 2					
Eye Irrit. 2		Eye irritation, category 2					
Skin Ir	rit. 2	Skin irritation, category 2					
STOT	SE 3	Specific target organ toxicity - single exposure, category 3					
Resp. 3	Sens. 1	Respiratory sensitization, category 1					
Skin S	ens. 1	Skin sensitization, category 1					
H351		Suspected of causing cancer.					
H332		Harmful if inhaled.					
H373		May cause damage to organs through prolonged or repeated exposure.					
H319		Causes serious eye irritation.					
H315		Causes skin irritation.					
H335		May cause respiratory irritation.					
H334		May cause allergy or asthma symptoms or breathing difficulties if inhaled.					
H317		May cause an allergic skin reaction.					
EUH20	4	Contains isocyanates. May produce an allergic reaction.					
	iptor system:	- · · · · · · · ·					
	2	Formulation into mixture					
		Use at industrial site leading to inclusion into/onto article					
		Widespread use of reactive processing aid (no inclusion into or onto article, indoor)					
PC	1	Adhesives, sealants					
PC	21	Laboratory chemicals					
PROC		Roller application or brushing					
PROC		Use as laboratory reagent					
PROC	3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled					
		exposure or processes with equivalent containment condition					
PROC		Chemical production where opportunity for exposure arises					
PROC		Mixing or blending in batch processes					
PROC		Transfer of substance or mixture (charging and discharging) at non- dedicated facilities					
PROC		Transfer of substance or mixture (charging and discharging) at dedicated facilities					
PROC		Transfer of substance or mixture into small containers (dedicated filling line, including weighing)					
SU	10	Formulation [mixing] of preparations and/or re-packaging (excluding alloys)					
SU	17	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment					
SU	19	Building and construction work					

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

- CAS NUMBER: Chemical Abstract Service Number

- CLP: EC Regulation 1272/2008

- DNEL: Derived No Effect Level

- EmS: Emergency Schedule

- GHS: Globally Harmonized System of classification and labeling of chemicals

- IATA DGR: International Air Transport Association Dangerous Goods Regulation

- IC50: Immobilization Concentration 50%

- IMDG: International Maritime Code for dangerous goods

⁻ CE50: Effective concentration (required to induce a 50% effect)

⁻ CE NUMBER: Identifier in ESIS (European archive of existing substances)

ΕN

SECTION 16. Other information ... / >>

- IMO: International Maritime Organization- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 09 / 11 / 15.