Safety Data Sheet
CROSSLINKER AZ6/CATALIZZATORE AZ6

Safety Data Sheet dated 18/1/2022, edition 3, version 2

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

1.1. Product identifier
Mixture identification:
Trade name:

CROSSLINKER AZ6 / CATALIZZATORE AZ6 (250 ML), CROSSLINKER AZ6 / CATALIZZATORE AZ6 (5 L)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Mixtures for the industrial and/or professional care and maintenance of leather items.
Uses advised against:
Stick to the recommended use.

1.3. Details of the supplier of the safety data sheet
Supplier:
FENICE S.p.A. - V. del Lavoro,1 - 36078 Valdagno (VI) Italy
FENICE S.p.A. - Tel. +39.0445.424.888
Competent person responsible for the safety data sheet:
ufficio.sicurezza@fenice.com

1.4. Emergency telephone number
FENICE S.p.A. - Tel. +39.0445.424.888 (8:00-12:00; 14:00-17:30)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)

- Warning, Acute Tox. 4, Harmful if swallowed.
- Danger, Eye Dam. 1, Causes serious eye damage.
- Warning, Skin Sens. 1, May cause an allergic skin reaction.
- Warning, Muta. 2, Suspected of causing genetic defects.
- Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.
- Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements
Hazard pictograms:

Danger

Hazard statements:

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye/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.
P310 Immediately call a POISON CENTER or a doctor.
P391 Collect spillage.

Special Provisions:

None

Contains

Polyfunctional Aziridine (EC. 939-180-9)

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%
Other Hazards:
No other hazards.

SECTION 3: Composition/information on ingredients

3.1. Substances

Identification of the substance:
Product type: Reaction mass of 2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl bis(2-methylaziridine-1-propionate) and 2,2-bis({[3-(2-methylaziridin-1-yl)propanoyl]oxy}methyl)butyl 3-[2,2-bis({[3-(2-methylaziridin-1-yl)propanoyl]oxy}methyl)butoxy
EC number: 939-180-9
REACH number: 01-2119963929-15-XXXX

Qty	Name	Ident. Number		Classification
>= 90%	Reaction mass of 2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl bis(2-methylaziridine-1-propionate) and 2,2-bis({[3-(2-methylaziridin-1-yl)propanoyl]oxy}methyl)butyl 3-[2,2-bis({[3-(2-methylaziridin-1-yl)propanoyl]oxy}methyl)butoxy]propanoate	EC: REACH No.:	939-180-9 01-2119963929-15	3.1/4/Oral Acute Tox. 4 H302 3.3/1 Eye Dam. 1 H318 3.5/2 Muta. 2 H341 4.1/C2 Aquatic Chronic 2 H411 3.9/2 STOT RE 2 H373 3.4.2/1 Skin Sens. 1 H317

3.2. Mixtures

Not available

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:
Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the product

must be rinsed immediately with plenty of running water and possibly with soap.
OBTAIN IMMEDIATE MEDICAL ATTENTION.
Wash thoroughly the body (shower or bath).
After contact with skin, wash immediately with soap and plenty of water.
In case of eyes contact:
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.
Protect uninjured eye.
In case of Ingestion:
Give nothing to eat or drink.
In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.
In case of respiratory problems, medical care is needed.

4.2. Most important symptoms and effects, both acute and delayed
For the most important symptoms and effects, caused by exposure, see the label (section 2) and/or section 11.
4.3. Indication of any immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
CO2, foam, dry extinguishers, nebulised water.
Extinguishing media which must not be used for safety reasons:
Do not use jets of water as it can cause the spread of fire.
Water can be used to cool containers exposed to flames to prevent explosions.
5.2. Special hazards arising from the substance or mixture
IN THE EVENT OF FIRE
Excess pressure may form in containers exposed to fire at a risk of explosion.
Do not inhale combustion gases.
Burning produces heavy smoke.
5.3. Advice for firefighters
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.
EQUIPMENT
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 air breathing apparatus (BN EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.
6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: inert absorbing material.
6.3. Methods and material for containment and cleaning up

Stop the leak or spill if this is not a risk. Use inert absorbent material to surround the contaminated area. Collect the product wearing, if necessary, appropriate protective equipment for a possible recovering or for disposal. Dispose in line with current laws and norms. Do not pour into drains.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Exercise the greatest care when handling or opening the container.
Avoid contemporary handling of any incompatible materials (see section 10).
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Do not eat or drink while working. Do not smoke.
Contamined clothing should be changed before entering eating areas.
Wash hands after use

7.2. Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place at a temperture between +5/40°C.
Keep away from light and humidity.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.

7.3. Specific end use(s)

Polyaziridine crosslinker

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Source: GESTIS International Limit Values Database

No occupational exposure limit available

Legal base:
TLV-ACGIH: ACGIH 2014 **
MAK values: List of MAK and BAT Values 2018**
UE European Union: Directive 2000/39/CE**
Deutschaland (AGS): Technische Regeln für Gefahrstoffe, Arbeitsplatzgrenzwerte, TRGS 900**
Deutschaland (DFG): MAK-und BAT-Werte-Liste 2012**
España: INSHT – Limites de exposición profesional para agentes químicos en España 2015**
France: Valeurs limites d'exposition professionnelle aux agentes chimiques en france. ED 984. INRS (2006)**
Italia: Decreto Ministeriale 26/02/2004**
Nederland: Nationale wettelijke publieke grenswaarden**
Österreich: Grenzwerteverordnung 2003 - GVK 2003**
România: HOTARÂRE Nr. 1218 din 6 septembrie 2006 and Complement from 2012 at www.mmuncii.ro**
Sverige: Occupational Exposure Limit Values, Statute Book of the Swedish Work Environment Authority, AFS 2011:18, English Tranlsation**
United Kingdom: EH40/2005 Workplace exposure limits**
Switzerland: www.suva.ch

**and updates

DNEL Exposure Limit Values
Not available

PNEC Exposure Limit Values
Not available

8.2. Exposure controls

As the adoption of adequate preventive measures must always take priority over personal protective equipment, make sure that:
- in case of inhalation exposure limit values, the workplace is well ventilated through an effective local aspiration system or other technical equipment, in order to maintain airborne levels below the exposure limits values
- if inhalation exposure limit values are not applicable, a good general ventilation is generally sufficient for most operations
- an emergency shower with face and eye wash station is available
- personal protective equipment is CE marked, in compliance with applicable standards

Individual protection measures
Use in well-ventilated areas. Do not breathe vapours. Do not get in eyes and on skin.
Adopt a correct personal hygiene. Do not consume or store food in the work areas.
Wash hands before smoking or eating.
Eye protection:
Use eye protecting goggles suitable to chemical risks.
Protection for skin:
Use clothing that provides comprehensive protection to the skin.
Protection for hands:
Protect hands with gloves suitable for protection against chemical agents (see standard EN 374).
In case of short-term exposure (splash protection):
Nitrile, neoprene or butyl rubber gloves
Breakthrough time: 30 min
Minimum thickness: 0.4 mm
In case of long-term exposure:
Butyl rubber, Viton or nitrile gloves
Breakthrough time: 480 min
Minimum thickness: 0.7 mm
The information provided here is indicative. The following parameters should be considered when choosing work glove material: degradation, failure time and permeability.
In case of chemical mixtures, the work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and frequency of use.
Respiratory protection:
In case of inadequate ventilation, prolonged exposure or mists/vapours/aerosol exposure (eg. spray application) use a respiratory protective equipment (eg. full face mask according to the DIN EN 136 standard with A Filter for organic gases and vapours according to DIN EN 141).
Thermal Hazards:
None
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	Value	Method:	Notes:

Physical state:	Liquid	Reg (EC) no. 1272/2008, Annex I, section 1.0	--
Colour:	yellowish		--
Odour:	charatteristic	--	--
Melting point/freezing point:	<0 °C	Expert judgement	--
Boiling point or initial boiling point and boiling range:	>100 °C	--	--
Flammability:	Flammable	Expert judgement	--
Lower and upper explosion limit:	Not available	--	--
Flash point:	> 100 °C	Expert judgement	--
Auto-ignition temperature:	Not Relevant*	--	--
Decomposition temperature:	Not Relevant*	--	--
pH:	10 +/- 1 (1:10)	UNI EN 1245:2011	--
Kinematic viscosity:	Not available	--	--
Solubility in water:	miscible	(1:10) water	--
Solubility in other solvents:	miscible in organic solvents	Expert judgement	--
Partition coefficient n-octanol/water (log value):	Not Relevant*	--	--
Vapour pressure:	Not available	--	--
Density and/or relative density:	1.07 +/- 0.05 g/cm3	UNI EN ISO 2811-1	--
Relative vapour density:	Not available	--	--

Particle characteristics:

Particle size:	Not Relevant*	--	--

9.2. Other information

No other relevant information

*Data not applicable or not relevant due to the nature of the product and / or on account of its chemical composition.

VOC total content: --%

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

The product is stable under normal storage/use conditions.

10.5. Incompatible materials

None in particular.

With acids and with strongly oxydising substances.

10.6. Hazardous decomposition products

May produce toxic and noxious fumes in case of fire.

SECTION 11: Toxicological information

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

In the absence of experimental data for the product itself, health hazards are evalueted according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

Toxicological information of the substance:

PRODOTTI 100% CT 14/C

a) acute toxicity
The product is classified: Acute Tox. 4 H302
b) skin corrosion/irritation
Not classified
Based on available data, the classification criteria are not met
c) serious eye damage/irritation
The product is classified: Eye Dam. 1 H318
d) respiratory or skin sensitisation
The product is classified: Skin Sens. 1 H317
e) germ cell mutagenicity
The product is classified: Muta. 2 H341
f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met
h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
i) STOT-repeated exposure
The product is classified: STOT RE 2 H373
j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met

Further information
No one in particular.

11.2. Information on other hazards
Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity
Adopt sound working practices, so that the product is not released into the environment.

The product is classified: Aquatic Chronic 2 - H411
12.2. Persistence and degradability
None
Not available
12.3. Bioaccumulative potential
Not available
12.4. Mobility in soil
Not available
12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration >= 0.1%
12.7. Other adverse effects
None
SECTION 13: Disposal considerations

13.1. Waste treatment methods
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number or ID number
ADR/RID UN number: 3082
IMDG-Un number: 3082
IATA-Un number: 3082
14.2. UN proper shipping name
ADR/RID-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyfunctional Aziridine)
IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyfunctional Aziridine)
IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyfunctional Aziridine)
14.3. Transport hazard class(es)
ADR-Class: 9
ADR-Label: 9
Rail (RID): 9
Air (ICAO/IATA): 9
IATA-Label: 9
IMDG-Class: 9
IMDG-Label: 9
14.4. Packing group
ADR/RID-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III
14.5. Environmental hazards
Marine pollutant: Marine pollutant
14.6. Special precautions for user
ADR-Transport category (Tunnel restriction code): (E)
Limited Quantities: 5 L (ESENTE CAP. 3.4)

IMDG-EMS: F-A,S-F
Limited Quantities: 5 L (FREE LQ7 - CAP. 3.4)

Segragation Group: None .

14.7. Maritime transport in bulk according to IMO instruments
No

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
Restrictions related to the product:
Restriction 3
Restrictions related to the substances contained:
No restriction.
Where applicable, refer to the following regulatory provisions :
Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
Product belongs to category: E2

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for the substance.
Based on information we have, a Chemical Safety Assessment, if expected, has been carried out for the substances in the mixture by the manufacturer or the importer.

SECTION 16: Other information

Text of phrases referred to under heading 3:
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H341 Suspected of causing genetic defects.
H411 Toxic to aquatic life with long lasting effects.
H373 May cause damage to organs through prolonged or repeated exposure.
H317 May cause an allergic skin reaction.

Hazard class and hazard category	**Code**	**Description**
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Muta. 2	3.5/2	Germ cell mutagenicity, Category 2
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

This safety data sheet has been completely updated in compliance to Regulation 2020/878.

This document was prepared by a competent person who has received appropriate training.

Further information
The information is considered correct, but it is not exhaustive and it shall be used only as a guide which is based on the current knowledge of the substance or mixture and it is applicable to the safety precautions appropriate for the product.
The information given is based on our present knowledge, at the time of sending the data sheet and only serves for describing the product for security reasons, without guaranteeing specific properties.
Due to the various uses of our product and for factors not dependent on us, no responsibility is accepted for the use of this information.
Please keep your records up to date and make this sheet available to all relevant personnel. This safety sheet cancels and substitutes any other previous issue.

Main bibliographic sources:
NIOSH - Registry of toxic effects of chemical substances (1983)
I.N.R.S. - Fiche Toxicologique
ECHA database on registered substances (http://apps.echa.europa.eu/registered/registered-sub.aspx)
ECHA Classification and Labelling Inventory (http://echa.europa.eu/clp/c_l_inventory_en.asp)
GESTIS hazardous substances database of German Berufsgenossenschaften (http://www.dguv.de/ifa/Gefahrstoffdatenbanken/GESTIS-Stoffdatenbank/index-2.jsp)

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.