

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 5/30/2022 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Substance
Trade name : TELALIT 0420
EC Index-No. : 612-067-00-9
EC-No. : 220-666-8
CAS-No. : 2855-13-2
REACH registration No : 01-2119514687-32
Product code : 50469398
Product group : Isophorone diamine

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category : Hardener

1.2.2. Uses advised against

Restrictions on use : There are no uses advised against identified.

1.3. Details of the supplier of the safety data sheet**Manufacturer**

Spolek pro chemickou a hutní výrobu, a.s.

Revoluční, 1930/86

400 32 Ústí nad Labem – Czech Republic

Czech Republic

T + 420 477 161 111 - F + 420 477 163 333

info@spolchemie.cz - <http://www.spolchemie.cz>

E-mail address of competent person responsible for the SDS : msds@spolchemie.cz

1.4. Emergency telephone number

Emergency number : CZ: +420 477 162 094/ EN: +420 476 163 111 non-stop service
Listing of national helpdesks at: http://echa.europa.eu/help/nationalhelp_contact_en.asp.

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1, Sub-Category 1B	H314
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, category 1A	H317

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction.

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP)



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	GHS05	GHS07
Signal word (CLP)	: DANGER	
Contains	: Isophorone diamine (3-aminomethyl-3,5,5-trimethylcyclohexylamine)	
Hazard statements (CLP)	: H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction.	
Precautionary statements (CLP)	: P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . 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 doctor, a POISON CENTER.	

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	: TELALIT 0420
CAS-No.	: 2855-13-2
EC-No.	: 220-666-8
EC Index-No.	: 612-067-00-9

Name	Product identifier	Conc.	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Isophorone diamine (3-aminomethyl-3,5,5-trimethylcyclohexylamine)	CAS-No.: 2855-13-2 EC-No.: 220-666-8 EC Index-No.: 612-067-00-9 REACH-no: 01-2119514687-32	> 95	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Isophorone diamine (3-aminomethyl-3,5,5-trimethylcyclohexylamine)	CAS-No.: 2855-13-2 EC-No.: 220-666-8 EC Index-No.: 612-067-00-9 REACH-no: 01-2119514687-32	(0.001 \leq C \leq 100) Skin Sens. 1A, H317

Full text of H- and EUH-statements: see section 16

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In a life threatening condition soon carry out resuscitation affected and seek medical advice. Respiratory arrest: immediately administer artificial respiration. Cardiac arrest: immediately perform indirect heart massage. Unconsciousness: place patient in recovery position.
First-aid measures after inhalation	: Remove the victim quickly and considering own safety to fresh air, do not let the victim walk! Depending on situation, it is recommended to rinse oral cavity and, if necessary, nose with water. If the victim's clothing is contaminated, change it and protect the victim against cold. Depending on situation, call the rescue service or get medical attention due to the frequent need for further follow-up for at least 24 hours.
First-aid measures after skin contact	: Remove contaminated clothing immediately; before washing or during washing, remove any rings, watches, bracelets that are in places of contact of the substance with skin. Rinse affected areas with stream of lukewarm water, if possible, for 10 to 30 minutes; do not use a brush, soap or neutralising agents! Cover burned areas of skin with a sterile dressing, do not use any ointments or other medical and pharmaceutical products. Cover the victim to protect him against cold. Depending on situation, call the rescue service or ensure medical attention.
First-aid measures after eye contact	: Rinse eyes immediately under running water, open eyelids (even by force); if the victim wears contact lenses, remove them immediately. Do never neutralise! Rinse for 10 to 30 minutes from the inner to the outer ocular angle to prevent running of water in the other eye. Depending on the situation, call an ambulance or medical attention as quickly as possible, if possible professional treatment. The victim needs to get medical attention even with in the case of a small injuries.
First-aid measures after ingestion	: DO NOT INDUCE VOMITING - risk of further damage to the digestive tract !!! There is a risk of perforation of the esophagus and the stomach! RINSE MOUTH IMMEDIATELY WITH WATER AND GIVE TO DRINK 2-5 dl of cold water to reduce the thermal effect of the caustics! Do not force the victim to drink, especially if he/she feels pain in mouth or throat. In this case, make the victim rinse his/her mouth. DO NOT ADMINISTER ACTIVATED CARBON! (blackening will make examination of the mucous membranes of more difficult and activated charcoal has not positive effect in case of acids and lyes). Do not give anything by mouth if the victim is unconscious or has convulsions. Depending on situation, call the rescue service or get medical attention as quickly as possible.

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

Symptoms/effects after skin contact	: May cause an allergic skin reaction. Causes severe burns.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Harmful if swallowed.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water fog. Dry chemical. Carbon dioxide. Foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Oxides of carbon, aldehydes, acids and unidentified mixtures of organic compounds.
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5.3. Advice for firefighters

Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

Protective equipment : Twilled fabric clothing (or working suit with rubber apron), rubber boots, rubber gloves, face shield or goggles.

6.2. Environmental precautions

Avoid release of product or components to the environment, sewers and surface water or soil.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Dam up spilled product, contain with inert material (e. g. kieselguhr, sand). Place into an impervious container and dispose of at hazardous chemical waste collection point or incinerate in a furnace where permitted under local regulations.

6.4. Reference to other sections

Additional advice : Refer to section 8, 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke during work, observe working instructions. Wash your hands and exposed parts of body thoroughly with soap and water after work and before meal and possibly treat with suitable reparation lotion. Store in original packaging, storage tanks and containers should be placed into containment basins of corresponding content and construction.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Provide local exhaust or general room ventilation.
Storage conditions	: Keep container tightly closed. Store in a dry place.
Storage temperature	: 5 – 25 °C
Heat and ignition sources	: Keep away from sources of ignition.
Information on mixed storage	: Store away from other materials.
Storage area	: A first aid kit with appropriate content must be available. Drinking water. Store in a place accessible by authorised persons only.

7.3. Specific end use(s)

Unknown.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

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8.1.4. DNEL and PNEC

Isophorone diamine (3-aminomethyl-3,5,5-trimethylcyclohexylamine) (2855-13-2)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	0.073 mg/m ³
Long-term - local effects, inhalation	0.073 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.526 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.06 mg/l
PNEC aqua (marine water)	0.006 mg/l
PNEC aqua (intermittent, freshwater)	0.23 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	5.784 mg/kg dwt
PNEC sediment (marine water)	0.578 mg/kg dwt
PNEC (Soil)	
PNEC soil	1.21 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	3.18 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Local exhaust recommended.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Protective goggles or face shield

8.2.2.2. Skin protection

Skin and body protection:

Twilled fabric clothing, footwear.

Hand protection:

Wear rubber gloves

8.2.2.3. Respiratory protection

Respiratory protection:

A combination filter, type of filters A + B, should be worn where organic vapours and acid gases may be generated. Use supplied air respirator for higher concentrations.

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8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release of product or components to the environment, sewers and surface water or soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless to yellowish.
Odour	: Amine-like.
Odour threshold	: Not available
Melting point	: 10 °C
Freezing point	: Not available
Boiling point	: 247 °C
Flammability	: Not available
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 112 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: > 11
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 0.92 g/cm ³ (20°C)
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not established.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

High temperature. Avoid static electricity discharges.

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10.5. Incompatible materials

Strong oxidising materials, strong Lewis or mineral acids.

10.6. Hazardous decomposition products

Oxides of carbon, aldehydes, acids and unidentified mixtures of organic compounds.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Based on available data, the classification criteria are not met
Acute toxicity (inhalation) : Based on available data, the classification criteria are not met

Isophorone diamine (3-aminomethyl-3,5,5-trimethylcyclohexylamine) (2855-13-2)

LD50 oral rat	1030 mg/kg
LD50 dermal rat	2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 5.01 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns.
pH: > 11
Serious eye damage/irritation : Causes serious eye damage.
pH: > 11
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Based on available data, the classification criteria are not met
Carcinogenicity : Based on available data, the classification criteria are not met
Reproductive toxicity : Based on available data, the classification criteria are not met
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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Based on available data, the classification criteria are not met
Hazardous to the aquatic environment, long-term (chronic) : Based on available data, the classification criteria are not met
Not rapidly degradable

Isophorone diamine (3-aminomethyl-3,5,5-trimethylcyclohexylamine) (2855-13-2)

LC50 - Fish [1]	110 mg/l
EC50 - Crustacea [1]	23 mg/l

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12.2. Persistence and degradability

TELALIT 0420 (2855-13-2)

Persistence and degradability	The product is with difficulty biodegradable.
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Isophorone diamine (3-aminomethyl-3,5,5-trimethylcyclohexylamine) (2855-13-2)

Persistence and degradability	Not readily biodegradable.
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12.3. Bioaccumulative potential

TELALIT 0420 (2855-13-2)

Bioaccumulative potential	Not established.
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Isophorone diamine (3-aminomethyl-3,5,5-trimethylcyclohexylamine) (2855-13-2)

Bioconcentration factor (BCF REACH)	3.16
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Bioaccumulative potential	Is not expected.
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12.4. Mobility in soil

TELALIT 0420 (2855-13-2)

Ecology - soil	Not established.
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Isophorone diamine (3-aminomethyl-3,5,5-trimethylcyclohexylamine) (2855-13-2)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.97 (25°C)
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12.5. Results of PBT and vPvB assessment

TELALIT 0420 (2855-13-2)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

12.7. Other adverse effects

Other adverse effects : Unknown

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

Product/Packaging disposal recommendations : Uncured or imperfectly cured residues (waste of category N, waste type code 08 04 09) should be placed in impermeable packaging and hand them over to an authorized person for disposal / recovery.

Perfectly cured residues (waste category O code of waste 08 04 10) should be placed in impermeable packaging and hand them over to an authorized person for disposal / recovery.

Contaminated packaging (waste of category N, waste code 15 01 10) should be hand them over to an authorized person for disposal / recovery.

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European List of Waste (LoW) code : 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances
08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09
15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / RID

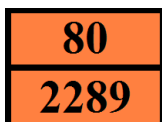
ADR	IMDG	RID
14.1. UN number or ID number		
UN 2289	UN 2289	UN 2289
14.2. UN proper shipping name		
ISOPHORONEDIAMINE	ISOPHORONEDIAMINE	ISOPHORONEDIAMINE
14.3. Transport hazard class(es)		
8	8	8
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

14.6. Special precautions for user

Special transport precautions : Requirements for the material design of means of transport:
Tank-vehicles /tank-containers: stainless steel - 316
Seal: material resistant to petroleum substances, resistant to amines and temperatures up to 100 °C (eg Teflon)

Overland transport

Classification code (ADR) : C7
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E

Transport by sea

EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

TELALIT 0420 is not on the REACH Candidate List

TELALIT 0420 is not on the REACH Annex XIV List

TELALIT 0420 is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

TELALIT 0420 is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

TELALIT 0420 is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

The chemical safety report has not been prepared yet.

SECTION 16: Other information

Indication of changes:

A new edition of the safety data sheet.

Indication of changes

Section	Changed item	Change	Comments
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]		

Abbreviations and acronyms:

vPvB	Very Persistent and Very Bioaccumulative
EC50	Median effective concentration
PBT	Persistent Bioaccumulative Toxic
DNEL	Derived-No Effect Level
DMEL	Derived Minimal Effect level
PNEC	Predicted No-Effect Concentration
LC50	Median lethal concentration
LD50	Median lethal dose

Data sources : List of hitherto classified dangerous substances. Internet database of chemical substances.
Safety data sheets of raw materials.

Training advice : Those who manipulate with the product must be demonstrably informed of its dangerous properties, principles of protecting the environment and health from its harmful effects and principles of first aid.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
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Full text of H- and EUH-statements:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Sens. 1A	Skin sensitisation, category 1A

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.