

### SAFETY DATA SHEET

# Aka-Cure Slow-2

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

#### 1.1. Product identifier

Trade name

Aka-Cure Slow-2

Product no.

25102213

Unique formula identifier (UFI)

MF25-J0H3-C0PS-Q528

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

Relevant identified uses of the substance or mixture

Slow curing agent for liquid epoxy

Uses advised against

Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancercausing nitrosamines could be formed.

### 1.3. Details of the supplier of the safety data sheet

## Company and address

### Akasel A/S

Svogerslev Hovedgade 48

4000 Roskilde

Denmark

+45 57 84 05 01

www.akasel.com

## E-mail

safety@akasel.com

SDS date

22-09-2021

**SDS Version** 

1.0

## 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.

Skin Sens. 1; H317, May cause an allergic skin reaction.

Eye Dam. 1; H318, Causes serious eye damage.

### 2.2. Label elements

Hazard pictogram(s)





## Signal word

Danger



### Hazard statement(s)

Causes skin irritation. (H315)

May cause an allergic skin reaction. (H317)

Causes serious eye damage. (H318)

### Safety statement(s)

#### General

### Prevention

Avoid breathing dust. (P261)

Contaminated work clothing should not be allowed out of the workplace. (P272)

Wear eye protection / protective gloves / protective clothing. (P280)

#### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER / doctor. (P310)

#### Storage

## Disposal

Dispose of contents/container to an approved waste disposal plant. (P501)

### Hazardous substances

3,6-diazaoctanethylenediamin triethylenetetramine

### 2.3. Other hazards

### Additional labelling

Not applicable

### Additional warnings

Contains epoxy constituents. May produce an allergic reaction.

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

## SECTION 3: Composition/information on ingredients

## 3.2 Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Triethylenetetramine, propoxylated	CAS No.: 26950-63-0	> 75%	Eye Irrit. 2, H319	
	EC No.: 500-055-5			
	REACH:			
	Index No.:			
3,6- diazaoctanethylenediamin triethylenetetramine	CAS No.: 112-24-3	< 25%	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314	
	EC No.: 203-950-6			
	REACH:		Skin Sens. 1, H317 Eye Dam. 1, H318	
	Index No.: 612-059-00-5		Aquatic Chronic 3, H412	

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See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available. Other information

The supplier has classified the product on the basis of tests.

## SECTION 4: First aid measures



### 4.1. Description of first aid measures

### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

IF ON SKIN: Wash with plenty of water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

### Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

### **Burns**

Not applicable

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO2).

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures



### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

### 6.3. Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancercausing nitrosamines could be formed.

N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitries or atmospheres with high nitrosating agents.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in steel containers, preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks.

## 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

### **DNEL**

No data available

### **PNEC**

No data available

#### 8.2. Exposure controls

Control is unnecessary if the product is used as intended.

## General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

## Exposure scenarios

There are no exposure scenarios implemented for this product.

### **Exposure limits**

Occupational exposure limits have not been defined for the substances in this product.

## Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of vapours.

#### Hygiene measures

Take off contaminated clothing and wash it before reuse.

### Measures to avoid environmental exposure

No specific requirements

## Individual protection measures, such as personal protective equipment

#### Generally

Use only CE marked protective equipment.

Respiratory Equipment



Work situation	Туре	Class	Colour	Standards
In properly ventilated areas	No specific requirements	-	-	-

## Skin protection

Recommended  Dedicated work clothing	Type/Category -	Standards	(S)
should be worn. Wear a protective suit in the event of prolonged periods of work with the product.			

## Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0.4	> 480	EN374-2, EN374-3, EN388	
Neoprene (Neoprene)	0.6	> 480	EN374-2, EN374-3, EN388	
Butyl	0.7	> 480	EN374-2, EN374-3, EN388, EN421	

## Eye protection

Type	Standards	
Safety glasses	EN166	

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Form

Liquid

Colour

Transparent

Odour

Fishy

## Odour threshold (ppm)

Testing not relevant or not possible due to nature of the product.

рΗ

6,0 - 7,0

Density (g/cm³)

1.02 (21.00 °C)

Viscosity

Testing not relevant or not possible due to nature of the product.

Phase changes

Melting point (°C)



Testing not relevant or not possible due to nature of the product.

Boiling point (°C)

>200 °C

Vapour pressure

<1.33 hPa (21.00 °C)

Vapour density

Testing not relevant or not possible due to nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

Evaporation rate (n-butylacetate = 100)

Data on fire and explosion hazards

Flash point (°C)

175.00 °C

Ignition (°C)

Testing not relevant or not possible due to nature of the product.

Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

Explosion limits (% v/v)

Testing not relevant or not possible due to nature of the product.

**Explosive properties** 

Testing not relevant or not possible due to nature of the product.

Oxidizing properties

Testing not relevant or not possible due to nature of the product.

Solubility

Solubility in water

Soluble

n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

9.2. Other information

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

## 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions

N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitries or atmospheres with high nitrosating agents.

## 10.4. Conditions to avoid

No special

## 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

The product slowly corrodes copper, aluminium, zinc and galvanized surfaces.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity

Product/substance 3,6-diazaoctanethylenediamin triethylenetetramine



Test method

Species Guinea pig
Route of exposure Intraperitoneal

Test LD50 Result 468 mg/kg

Other information

Product/substance

3,6-diazaoctanethylenediamin triethylenetetramine

Test method

Species Guinea pig
Route of exposure Intravenous
Test LD50
Result 350 mg/kg

Other information

Product/substance

3,6-diazaoctanethylenediamin triethylenetetramine

Test method

Species Rat
Route of exposure Oral
Test LD50
Result 2500 mg/kg

Other information

Product/substance

3,6-diazaoctanethylenediamin triethylenetetramine

Test method

Species Rabbit
Route of exposure Dermal
Test LD50
Result 805 mg/kg

Other information

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/irritation

Causes serious eye damage.

### Respiratory sensitisation

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

### 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.

## Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of



exposure.

### Other information

No special

### SECTION 12: Ecological information

### 12.1. Toxicity

Product/substance

3,6-diazaoctanethylenediamin triethylenetetramine

3,6-diazaoctanethylenediamin triethylenetetramine

Test method

**Species** Daphnia

Compartment

Duration 48 hours LC50 Test Result 33900 µg/L

Other information

### 12.2. Persistence and degradability

No data available

# 12.3. Bioaccumulative potential Product/substance

Test method

No data available Potential

bioaccumulation

LogPow -2.6500

No data available **BCF** 

Other information

## 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

### 12.6. Other adverse effects

No special

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Avoid discharge to lakes, streams, sewers, etc.

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

### EWC code

Not applicable

## Specific labelling

Not applicable

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

### **SECTION 14: Transport information**

## 14.1 - 14.4

Not dangerous goods according to ADR, IATA and IMDG.

### ADR/RID



Not applicable

### **IMDG**

Not applicable

"MARINE POLLUTANT"

No

#### **IATA**

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

No data available

### **SECTION 15: Regulatory information**

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

### Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

#### Demands for specific education

Use of this product requires dedicated training in work with polyurethane and epoxy products.

### SEVESO - Categories / dangerous substances

Not applicable

#### Additional information

Not applicable

#### Sources

The Management of Health and Safety at Work Regulations 1999

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

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 (CLP).

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).

## 15.2. Chemical safety assessment

No

#### SECTION 16: Other information

## Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.

H312, Harmful in contact with skin.

H314, Causes severe skin burns and eye damage.

H317, May cause an allergic skin reaction.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H412, Harmful to aquatic life with long lasting effects.

## Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment



CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit.

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

**UN = United Nations** 

UVCB = Complex hydrocarbon substance

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

## The safety data sheet is validated by

iro@akasel.com

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en