

SAFETY DATA SHEET

Curative No. 7 (100%)



Date: 02/2024

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

1.1 Product Identifier

Curative No. 7, 100%

CAS No. 1025-15-6

Einecs No. 213-834-7

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

1.2.1. Identified uses:

Curing agent / cross-linker / vulcanising agent.

1.2.2. Uses advised against:

Not available.

1.3 Details of the supplier of the Safety Data Sheet.

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2. Hazards Identification.

2.1 Classification of the substance or mixture.

Classification according to Regulation (EC) No. 1272/2008

Acute Tox. 4 H302 Harmful if swallowed

Acute Tox. 4 H312 Harmful in contact with skin

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms.



GHS07



GHS08

Signal word. Warning

Hazard-determining components of labelling:

1,3,5-tris-2'-propenylisocyanuric acid

Hazard statements

H302 + H312 Harmful if swallowed or in contact with skin

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P301+P312 IF SWALLOWED: call a POISON CENTER/doctor, if you feel unwell.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water.

Additional information :

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Relates to skin and liver.

Trade name. Curative No. 7 100%

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable

vPvb: Not applicable

3. Composition / information on ingredients

3.2 Mixtures

Description: Triallylisocyanurate

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Dangerous components:

CAS: 1025-15-6 1,3,5-tris-2'-propenylisocyanuric acid 100%
EINECS: 213-834-7 STOT RE 2. H373 Acute Tox. 4, H302

REACH Reg.nr.: 01-2119932313-47- XXXX Acute Tox. 4, H312

Additional information:

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Relates to skin and liver.

For the wording of the listed hazard phrases refer to section 16.

4. First Aid Measures.

4.1 Description of first aid measures.

General information:

Immediately remove any clothing soiled by the product.

Take affected persons out of danger area and lay down.

Do not leave affected persons unattended.

After inhalation:

Take affected persons into fresh air and keep quiet.

Supply fresh air or oxygen; call for doctor.

After skin contact:

Take off immediately all contaminated clothing.

Immediately wash with water and soap and rinse thoroughly

Clean with water and soap. If possible, also wash with polyethylene glycol 400.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes (5 min) under running water.

Seek medical treatment.

After swallowing:

Rinse out the mouth and then drink plenty of water.

Call for a doctor immediately.

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

No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture:

Decomposition product: 3-aminopropylene (allylamine)

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Hydrogen cyanide (HCN)

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

Environmental

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

6.2 Environmental precautions: Do not discharge into surface water, drains or the environment.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment.

See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling

Normal hygiene and safety precautions should be observed when handling chemicals.

Use only in well ventilated areas.

Store in cool, dry place in tightly closed receptacles.

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Information about fire – and explosion protection

Keep ignition sources away – Do not smoke.
Protect against direct sources of light.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Keep container tightly closed and in a dry, cool place.
Store in a well ventilated area.

Further information about storage conditions: None.

7.3 Specific end use(s) see point 1.2

8 Exposure controls / personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs

Based on supplier information

1025-15-6 1,3,5-tris-2'-propenylisocyanuric acid

Dermal long-term – systemic effects, worker 0.1 mg/kg bw/day (worker)

Inhalative long-term – systemic effects, worker 0.35 mg/m³ (worker)

PNECs

Based on supplier information

1025-15-6 1,3,5-tris-2'-propenylisocyanuric acid

Aquatic compartment – freshwater

0.1 mg/l (species unknown)

aquatic compartment – marine water

0.1 mg/l (species unknown)

aquatic compartment – sediment in freshwater

3.026 mg/kg sed dw (species unknown)

aquatic compartment – sediment in marine water

0.303 mg/kg sed dw (species unknown)

aquatic compartment – water, intermittent releases

1 mg/l (species unknown)

sewage treatment plant

100 mg/l (species unknown)

terrestrial compartment – soil

0.574 mg/kg dw (soil) (species unknown)

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

Respirators required in case of gases or vapours.

Filter A1

ABEK – P2

Protection of hands:

Material of gloves

Chemical resistant gloves, hand protection (EN 374)

Nitrile rubber, NBR

Recommended thickness of the material: 0.2 mm (DIN EN 374)

Suitable gloves for permanent contact

Chloroprene rubber, CR

Recommended thickness of the material: ≥ 65 mm

Penetration time of glove material

Due to missing tests no recommendation to the glove material can be given for the product / the preparation / the chemical mixture.

Eye protection: Safety glasses

Body protection: Protective work clothing.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:

Liquid

Colour:

Colourless

Odour:

Specific type

Odour threshold:

Not determined

pH – value

Not applicable

Change in condition

Melting point / freezing point:

25°C

Initial boiling point and boiling range:

150°C (5,3 hPa)

Flash point:

160°C (DIN EN ISO 2719 closed cup)

Decomposition temperature:

SADT > 75°C

SADT. Self Accelerating Decomposition
Temperature

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Auto – ignition temperature:	410°C (EEC – method 92/69/EWG, A15)
Explosive properties:	Product does not present an explosion hazard.
Density at 15°C:	c. 1.17 g/cm ³ (DIN 51757)
Solubility in / Miscibility with Water at 30°C:	3.7 g/l
Partition coefficient: n-octanol / water at 25°C:	2.2 log POW (OECD 117)
Viscosity:	
Dynamic at 30°C:	90 mPas (DIN 51562)
Kinematic at 30°C:	78 mm ² /s (DIN 51562)
9.2 Other information	No further relevant information available.

10 Stability and reactivity

10.1 Reactivity	No further relevant information available
10.2 Chemical stability:	
Thermal decomposition / conditions to be avoided:	> 60°C
10.3 Possibility of hazardous reactions:	Product tends to polymerise above 60°C
10.4 Conditions to avoid:	No further relevant information available.
10.5 Incompatible materials:	Water, acids, bases, radical formers
10.6 Hazardous decomposition products:	
Decomposition product: 3-aminopropylen (allylamine)	
In case of fire, decomposition or in the presence of acids toxic gases will be liberated.	

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed or in contact with skin.

LD/LC50 values relevant for classification:

Data from raw material supplier:

1025-15-6 1,3,5-tris-2'-propenylisocyanuric acid

Oral LD50 700 mg/kg (rat)

Dermal LD50 >1,000 mg/kg (rat)

Specific symptoms in biological assay: Oral: 14d (rat): NOEL: 10mg/kg: LOEL: 100mg/kg (lit.)

Primary irritant effect:

Skin corrosion / irritation Non-skin irritant / rabbit (OECD 404)

Serious eye damage / irritation Non-eye irritant / rabbit (OECD 405)

Respiratory or skin sensitisation Not sensitising / guinea pig (OECD 406)

Other information (about experimental toxicology): non teratogenic, AMES

Repeated dose toxicity

Assessment of STOT repeat exposure, oral, Liver: TAIC is classified as specific target organ toxicant, repeated exposure, cat 2

Specific target organ toxicity – repeated exposure (skin)

CMR effects (carcinogenicity, mutagenicity and toxic for reproduction)

Genotoxicity in vitro: negative (OECD methods 476, 473, Ames – test)

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

May cause damage to organs through prolonged or repeated exposure.

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

12 Ecological information

12.1 Toxicity

Aquatic toxicity:

1025-15-6 1,3,5-tris-2'-propenylisocyanuric acid

LC50, 96h > 100mg/l (fish) (OECD TG 203)

EC50, 72h > 100mg/l (algae) (OECD TG 201)

EC50, 48h 340 mg/l (daphnia)

12.2 Persistence and degradability

Data from raw material supplier: Bv

Not easily biodegradable

Aerob DOC (Dissolved Organic Carbon); 28d, 7%; Die Away Test – 92/69/ EWG C,4-A

12.3 Bioaccumulative potential No further relevant information available

12.4 Mobility in soil

Data from raw material supplier:

logKOC:- 2: low (soil); method: EPI Suite, pure TAIC)

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Additional ecological information:

General notes: Do not allow product to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available

13 Disposal considerations

13.1 Waste treatment methods

Waste disposal key:

The waste disposal code number is to be determined in accordance with the criteria of the disposal contractor / authority.

Recommendation:

European waste catalogue

07 02 14 wastes from additives containing dangerous substances

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Dispose of in accordance with regional regulations

14 Transport information

14.1 UN-Number

ADR, AND, IMDG, IATA Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA
Class Void

14.4 Packaging group

ADR, IMDG, IATA Void

14.5 Environmental hazards

Marine pollutant No

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex 11 of Marpol and the IBC Code

Not applicable

UN "Model Regulation":

Void

15 Regulatory information

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

TSCA (Toxic Substances Control Act): Substance is listed / registered.

Europe (EINECS / ELINCS) Substance is listed / registered.

CHINA INV (CN) Substance is listed / registered.

Japan (NITE-CHRIP) Substance is listed / registered.

Australia (AICS) Substance is listed / registered.

Korea (TCCL) Substance is listed / registered.

Philippines (PICCS) Substance is listed / registered.

Canada (DSL) Substance is listed / registered.

15.2 Chemical safety assessment A Chemical Safety Assessment has been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific features and shall not establish a legally contractual relationship.

Relevant phrase

H302 Harmful if swallowed

H312 Harmful in contact with skin

H373 May cause damage to organs through prolonged or repeated exposure

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Department issuing SDS: Technical.

Abbreviations and acronyms:

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG:	International Maritime Code for Dangerous Goods
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
DNEL:	Derived No-Effect Level (REACH)
PNEC:	Predicted No-Effect Concentration (REACH)
LC50:	Lethal Concentration. 50 percent
LD50:	Lethal Dose, 50 percent
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative
Acute Tox. 4:	Acute Toxicity – oral – Category 4
STOT RE 2:	Specific target organ toxicity (repeated exposure) – Category 2

Annex: Exposure scenario

Short title of the exposure scenario

- Rubber compounding and vulcanisation process (Crosslinking of rubber)
- Plastic processing and crosslinking
- Formulation with polymer

Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Process category

PROC 8a	Transfer of substance or mixture (charging process (and discharging) at non-dedicated facilities
PROC 8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC 9	Transfer of substance or mixture into small containers (dedicated filling line , including weighing
PROC 1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
PROC 2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC 3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions
PROC 4	Chemical production where opportunity for exposure arises
PROC 5	Mixing or blending in batch processes.
PROC 6	Calendering operations.
PROC 7	Industrial spraying.
PROC 10	Roller application or brushing.
PROC 13	Treatment of articles by dipping and pouring.
PROC 14	Tabletting, compression, extrusion, pelletisation, granulation.
PROC 15	Use as laboratory reagent.
PROC 21	Low energy manipulation and handling of substances bound in / on materials or articles.

Environmental release category

- a, and b, Rubber compounding and vulcanisation process (Cross linking of rubber): Plastic processing and crosslinking.
- ERC6d Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into / onto article)
- c. Formulation with polymer.
- ERC 3 Formulation into solid matrix

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use Customary application according to section 1

Duration and frequency

3.33 tons per day (a.)

10 tons per day (b.)

5 tons per day (c.)

Valid for a, and b.:

Annual site amount : 1000 tonnes / year

Valid for c. ,

Annual site amount: 50 tonnes / year

Physical parameters

Physical state Fluid

Used amount per time or activity

3.3 tons per day

(Crosslinking of rubber)

10 tons per day

(Plastic processing and crosslinking)

5 tons per day

(Formulation with polymer)

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Other operational conditions

Other operational conditions affecting environmental exposure

No special measures required.

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure.

Avoid direct contact with the chemical / product / preparation by organisational measures

Keep away from heat.

Avoid contact with the skin.

Other operational conditions affecting consumer exposure. No special measures required.

Other operating conditions affecting consumer exposure during the use of the product.

Not applicable.

Risk management measures

Worker protection.

Organisational protective measures. No special measures required.

Technical protective measures

Ensure that suitable extractors are available on processing machines

Effectiveness: 90%

Ventilation rate per hour: min.3 protective measures

Ventilation rate per hour: 5.(a. PROC 8a. 9)

Ventilation rate per hour: 5 (b PROC 8a. 9)

Ventilation rate per hour: 10 (b. PROC 5)

Personal protective measures

The usual precautionary measures are to be adhered to when handling chemicals.

Do not inhale dust / smoke / mist

Use suitable respiratory protective device in case of insufficient ventilation.

Avoid contact with the skin.

Protective gloves complying with EN 374

Environmental protection measures

Water

Disposal by waste water treatment plant.

Flow rate of sewage treatment plant effluent: 2000 m3/day

Disposal measures: Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging.

Exposure estimation

Worker (oral) No significant oral exposure

Worker (dermal)

The Exposure assessment demonstrates that in compliance with the risk management measures (workplace related technical and personal protective measures) the use of the hazardous substance is safe.

Detailed information from the raw material supplier (Risk Characterisation Ratios, RCR, Reasonable worst case, RWC, special reviews,) can be ordered on request.

Valid for:

(see DNEL long-term exposure, systemic 0.1 mg/kg body weight/day

No significant dermal exposure in process categories PROC 5, 6, 14, 21, the product is an ingredient in a rubber compound.

Worker (inhalation)

The Exposure assessment demonstrates that in compliance with the risk management measures (workplace related technical and personal protective measures) the use of the hazardous substance is safe.

Detailed information from raw material supplier (Risk Characterisation Ratios, RCR, Reasonable worst case, RWC, special reviews) can be ordered on request.

Valid for:

(see DNEL long-term – systemic effects: 0.35 mg/m³)

No significant dermal exposure in process categories PROC 5, 6, 14, 21, the product is an ingredient in a rubber compound.

Environment

Detailed information from raw material supplier (Risk Characterisation Ratios, RCR, Reasonable worst case, RWC, special reviews) can be ordered on request.

The environmental exposure assessment shows that in compliance with the environmental protection measures, the use is safe (EUSES)

Consumer Not relevant for this Exposure Scenario.

Guidance for downstream users. No further relevant information available.

Issued by:

J. Allcock & Sons Ltd

SDS issue

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