

SAFETY DATA SHEET

Curative No. 7 (100%)

Date: 05/2019

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1 IDENTIFICATION OF SUBSTANCE

1.1 Product Identifier:

Identification on the label/ Trade name: Curative No. 7 (100%)
CAS Number: 1025-15-6
EINECS Number: 213-834-7

1.2 Relevant Identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Curing agent/ cross-linker/ Vulcanizing

1.2.2 Uses advised against:

Not available

1.3 Details of the Supplier of the material safety data sheet:

J. Allcock & Sons Ltd.,
Textile Street,
West Gorton,
Manchester,
M12 5DL.



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2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

2.1.1 Classification:

The substance is classified as following according to 67/548/EEC or 1999/45/EC and REGULATION (EC) No 1272/2008(CLP).

EU CLP 1272/2008		
Hazard Classes/ Hazard Categories	Hazard Statement	
Acute Tox. 4	H302 : Harmful if swallowed H312 : Harmful in contact with skin	 GHS07
STOT SE 2	H373 : May cause damage to organs through prolonged or repeated exposure.	 GHS08

67/548/EEC or 1999/45/EC		
Hazard Characteristics	R-Phrases	
Xn	R22-48/22 : Harmful if swallowed. Harmful: danger of serious damage to health by prolonged exposure if swallowed.	 Xn; Harmful

2.2 Label Elements:

2.2.1 Labelling according to Regulation (EC) No 1272/2008:

Hazard Pictograms:

GHS07, GHS08

Signal Word(s):

Warning

Contains:

1,3,5-Triallyl-1,3,5-triazin-2,4,6-trion (TAIC)

Hazard statements:

H302 Harmful if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. P330 Rinse mouth.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

2.3.1 Results of PBT and vPvB assessment:

PBT: Not applicable.
vPvB: Not applicable.

3 COMPOSITION / INFORMATION ON INGREDIENTS

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Substance/Mixture:

The product in question is a substance.

Hazardous Ingredients:

Substance Name	% by weight	CAS No.	EINECS/ELINCS	Classification
Triallylisocyanurate (1,3,5-Triallyl-1,3,5,-triazin- 2,4,6-trion)	100	1025-15-6	213-834-7	Xn R22-48-22. STOT RE 2, H373; Acute Tox. 4, H302 Acute Tox. 4, H312

4 FIRST-AID MEASURES

4.1 Description of first aid measures:

4.1.1 In case of inhalation:

Take affected persons into fresh air and keep quiet.
Seek medical treatment in case of complaints.

4.1.2 In case of skin contact:

Take off immediately all contaminated clothing.
Clean with water and soap. If possible, also wash with polyethylene glycol
400. If skin irritation continues, consult a doctor

4.1.3 In case of eyes contact:

Rinse opened eye for several minutes under running water. Then consult a doctor (15

min). 4.1.4 In case of ingestion:

Rinse out mouth and then drink plenty of
water. Call for a doctor immediately.

4.1.5. General Information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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

No further relevant information available.

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

No further relevant information available.

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing Media:

5.1.1 Suitable extinguishing media:

CO₂, powder or water spray. Fight larger fires with water spray.
Use fire extinguishing methods suitable to surrounding conditions.

5.1.2 Unsuitable extinguishing agents: Water with full jet.

5.2 Specific Hazards arising from the substance or mixture:

Decomposition product: 3-aminopropylen (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 fire-fighters:

Wear fully protective suit.
Wear self-contained respiratory protective device.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not discharge into surface water, drains or the environment
Do not allow to enter sewers/ surface or ground water.

6.3 Methods of containment and cleaning up:

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Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections:

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

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.
Protect against electrostatic charges
Keep ignition sources away - Do not smoke.
Protect against direct sources of light

7.2 Conditions for safe storage, including any incompatibilities:

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

7.3 Specific end use(s):

No further relevant information available.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Not applicable.

8.2 Exposure controls:

8.2.1 Individual protection measures:

Eye/face protection:

Tightly sealed safety

glasses. Hand protection:

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Chemical resistant gloves, hand protection (EN 374)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Nitrile rubber, NBR

Chloroprene rubber, CR

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.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Skin protection:

Protective work

clothing. Respiratory protection:

Respirators required in case of gases or vapours

Short term filter device:

Filter A1

Suitable respiratory protective device

recommended. ABEK-P2

Other:

Keep away from foodstuffs, beverages and food.

Wash hands before breaks and at the end of the workday.

Instantly remove any soiled and impregnated garments.

9 PHYSICAL AND CHEMICAL PROPERTIES

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9.1 Information on basic physical and chemical properties:

Appearance:		Liquid
Physical state:		Colourless
Colour:		Characteristic
Odour:		Not determined
pH (1%):	@ 20°C	25°C
Melting point/range (°C):		150°C
Boiling point/range (°C):	@ 5.3 hPa	160°C
Flash point (°C):		Not applicable
Evaporation rate:		Product is not self-igniting.
Flammability (°C):		Product is not explosive.
Upper/lower flammability/explosive limits:		< 0.01 hPa
Vapour pressure:	@ 20°C	1.15 g cm ⁻³
Relative Density (g cm ⁻³):	@ 30°C	3.7 g/l
Solubility:	In water at 30°C	Not determined
Auto-ignition temperature (°C):		Not determined
Decomposition temperature (°C):		2.2 log POW (OECD 117)
Segregation coefficient (n-octanol/water):	@ 25°C	90 mPas
Viscosity:	Dynamic @ 30°C	78 mm ² /s
	Kinematic @ 30°C	

9.2 Other information:

None.

10 STABILITY AND REACTIVITY

10.1 Reactivity:

No dangerous reactions known if used as directed.

10.2 Chemical stability:

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions:

Product tends to polymerisation above: 60 °C

10.4 Conditions to avoid:

> 60 °C
No decomposition if used according to specifications.

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 presence of acids toxic gases will be liberated.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity:

LD50 (Oral, Rat): 700 mg/kg
LD50 (Dermal, Rat): >1000

mg/kg Skin corrosion/irritation:

No irritant effect / rabbit (OECD
404) 92/69/EWG, B.4

Serious eye damage/irritation:

No irritating effect / rabbit (OECD
405) 92/69/EWG, B.5

Respiratory or skin sensitization:

not sensitising / guinea pig (OECD
406) STOT- single exposure:

Not determined.

STOT- repeated exposure:

Not determined.

Other information (about experimental

toxicology): non teratogenic; AMES

Repeated dose toxicity:

oral rat, 14 d, NOEL: 10 mg/kg; LOEL: 100 mg/kg; spleen-atrophy, immunosuppression (lit.)

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oral rat, 4 weeks, NOEL: <5 mg/kg, target organ liver (lit.) CMR
effects (carcinogenicity, mutagenicity and toxicity for reproduction):
genotoxicity in vitro: negativ (OECD methods 476, 473, Ames-
test) Additional toxicological information:
The product shows the following dangers according to the calculation method of the General EC Classification
Guidelines for Preparations as issued in the latest version: Harmful.

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

Aquatic Toxicity:

EC50, 48h 340 mg/l (daphnia)

12.2 Persistence and degradability:

Data from raw material supplier:

aerob DOC (Dissolved Organic Carbon); 28d, 7 %; Die Away Test-92/69/EWG C.4-
A Not easily biodegradable.

12.3 Bioaccumulative potential:

No further relevant information available.

12.4 Mobility in soil:

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

12.5 Other adverse effects:

Water hazard class 1: slightly hazardous to water. Do not allow undiluted product or large quantities of it to reach ground water,
water bodies or sewage system.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

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

13.2 Product/ Packaging disposal:

Disposal must be made according to official regulations.

14 TRANSPORT INFORMATION

14.1 General:

None.

14.2 UN-no:

None.

14.3 Transport hazard class(es)

14.3.1 RID/ADR:

No Dangerous

Goods 14.3.2 IMDG:

Not classified as "Dangerous Goods"

14.3.3 IATA/ICAO:

Not classified as "Dangerous Goods"

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 (MITI) 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:

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Chemical safety assessments for substances in this mixture were not carried out.

16 OTHER INFORMATION

16.1 Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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For any further information please contact **J. Allcock & Sons Ltd.**

DISCLAIMER: All information and instructions provided in these Safe Handling Instructions (SHI) are based on the current state of scientific and technical knowledge at the date indicated on the present SHI. J. Allcock & Sons Ltd. shall not be held responsible for any defect in the product covered by this SHI, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge. **Dated:05/19**

