

SAFETY DATA SHEET

Curative No. 7 (70%)

Date: 05/2019

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1 IDENTIFICATION OF SUBSTANCE

1.1 Product Identifier:

Identification on the label/ Trade name: Curative No. 7 (70%)

CAS Number: 1025-15-6 / 7631-86-9

EINECS Number: 213-834-7 / 231-545-4

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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Tel: +44 (0)161 223 7181
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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 mixture.

Hazardous Ingredients:

Substance Name	Concentration (% w/w)	CAS No.	EINECS/ELINCS	Registration No	Classification
Triallylisocyanurate (1,3,5-Triallyl-1,3,5-triazin-2,4,6-trion)	70-90	1025-15-6	213-834-7	01-2119932313-47	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:

If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

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 (15min).

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:

Components	CAS-No.	Value type (form of exposure)	Control parameters	Basis
112926-00-8	Not as signed	TWA (inhalable dust)	6mg/m3 (Silica)	GB EH40
		TWA (Respirable dust)	2.4 mg/m3 (silica)	GB EH40
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, the COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m ⁻³ 8-hour TWA of inhalable dust or 4 mg.m ⁻³ 8-hour respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs an exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End use	Exposure routes	Potential health effects	Value
1, 3, 5-triallyl-1, 3, 5-triazine-2, 4, 6 (1H, 3H, 5H)-trione	Workers	Dermal	Long-term systemic effects	0.1mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	0.35 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
1, 3, 5-triallyl-1, 3, 5-triazine-2, 4, 6 (1H, 3H, 5H)-trione	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Intermittent use/release	1mg/l
	Fresh water sediment	3.026mg/kg dry weight (d.w)
	Marine sediment	0.3026 mg/kg dry weight (d.w)
	Soil	0.5465 mg/kg dry weight (d.w)

8.2 Exposure controls:

Personal protective equipment

Eye protection : Safety glasses
Hand protection : Latex gloves, breakthrough time of >480 min, glove thickness 0.6mm
Skin and body protection : Long sleeved clothing
Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Filter type : Particulate type (P)
Protective measures : wear suitable protective equipment.

9 PHYSICAL AND CHEMICAL PROPERTIES

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9.1 Information on basic physical and chemical properties:

Appearance:	Powder
Colour:	Grey
Odour:	Characteristic
pH (1%):	No data available
Melting point/range (°C):	No data available
Boiling point/range (°C):	No data available
Flash point (°C):	No data available
Evaporation rate:	No data available
Flammability (°C):	No data available
Upper/lower flammability/explosive limits:	Product is not explosive.
Vapour pressure:	No data available
Relative Density (g cm ⁻³):	No data available
Solubility (water):	immiscible
Auto-ignition temperature (°C):	Not determined
Decomposition temperature (°C):	Not determined
Segregation coefficient (n-octanol/water):	No data available
Viscosity:	No data available

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:

Dust may form explosive mixture in air

10.4 Conditions to avoid:

No decomposition if used according to specifications.

10.5 Incompatible materials:

Metals, Bases

10.6 Hazardous decomposition products:

Carbon Dioxide (CO₂), Carbon monoxide (CO), Oxides or nitrogen (NO_x), dense black smoke

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity

<u>Product</u>		
Acute oral toxicity :	Acute toxicity estimate:1.010mg/kg	Method: Calculation method
Acute dermal toxicity :	Acute toxicity estimate:1.572mg/kg	Method: Calculation method

<u>Components</u>		
1,3,5-triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione		
Acute oral toxicity :	LD50 (rat, male): 707 mg/kg	Method: OECD Test Guideline 401
Skin corrosion/irritation:	Species Rabbit: no skin irritation	Method: OECD Test Guideline 404
Serious eye damage/irritation:	Species Rabbit: no eye irritation	Method: OECD Test Guideline 405
Respiratory or skin sensitization:	Species Guinea pig: not a skin sensitizer	Method: OECD Test Guideline 406

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12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

Components

1,3,5-triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:

Toxicity to fish:	LC50 (Oryzias latipes) >100mg/l Exposure time 96hr	Method: OECD Test Guideline 203
Toxicity to daphnia/other aquatic invertebrates:	LC50 (Daphnia magna) >340mg/l Exposure time 48hr	Method: OECD Test Guideline 202
Toxicity to algae:	ErC50 (Pseudokirchneriella subcapitata) >100mg/l Exposure time 72hr	Method: OECD Test Guideline 201
Toxicity to microorganisms:	EC10 (Activated sludge) >1.000mg/l Exposure time 3hr	Method: OECD Test Guideline 209

12.2 Persistence and degradability:

Components

1,3,5-triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:

Biodegradability:	Result: not readily biodegradable	Biodegradation: 7%	Exposure time: 28d	Method: OECD Test Guideline 301A
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12.3 Bioaccumulative potential:

No further relevant information available.

12.4 Mobility in soil:

No data available

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.**

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