

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 4/11/2023 Supersedes version of: 5/17/2020 Version: 2.1

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

1.1. Product identifier

Product form Product name

Product code

: Mixture

: Betochem 3600 B-comp

: Onbekend

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

1.2.1. Relevant identified uses

Industrial/Professional use spec

: Industrial For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Deys Betontechniek Nederland Gelreweg 5 P.O. Box 330, 3840AH 3843AN Harderwijk T +31 (0)341415148 - F +31 (0)341425490 info@deys.nl - http://www.deys.nl/

1.4. Emergency telephone number

Emergency number

: +31 (0)302748888

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

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
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410
Full text of H-statements: see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)



Signal word (CLP)

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Contains	: carbomonocyclische gealkyleerde mengsels van poly-aza-alkanen, gehydrogeneerd; benzyl alcohol; 1,2 ethanediamine,N-(2-aminoethyl)-reactieproducten met glycidyltolylether; 3- aminopropyldiethylamine; 2,2-iminodi(ethylamine); Tris-2,4,6-(dimethylaminomethyl)phenol
Hazard statements (CLP)	 H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P391 - Collect spillage.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
carbomonocyclische gealkyleerde mengsels van poly- aza-alkanen, gehydrogeneerd	(CAS-No.) 1173092-74-4	25 – 75	Skin Corr. 1B, H314 Skin Sens. 1, H317
1,2 ethanediamine,N-(2-aminoethyl)-reactieproducten met glycidyltolylether	(CAS-No.) 84144-79-6 (EC-No.) 282-199-6	25 – 75	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Tris-2,4,6-(dimethylaminomethyl)phenol	(CAS-No.) 90-72-2 (EC-No.) 202-013-9	5 – 10	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317
benzyl alcohol	(CAS-No.) 100-51-6 (EC-No.) 202-859-9 (EC Index-No.) 603-057-00-5	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
3-aminopropyldiethylamine	(CAS-No.) 104-78-9 (EC-No.) 203-236-4	1 – 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1, H317
2,2-iminodi(ethylamine)	(CAS-No.) 111-40-0 (EC-No.) 203-865-4	0.1 – 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 1 (Inhalation:vapour), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT SE 3, H335

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

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SECTION 4: First aid measures

4.4 Deceri	nation of	f first stat	
4.1. Descri	ption o	r first ald	measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. Wash with plenty of water/ If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Immediately call a POISON CENTER/doctor.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects Symptoms/effects after inhalation Symptoms/effects after ingestion	 Causes severe skin burns and eye damage. May cause an allergic skin reaction. Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.Do not use a heavy water stream.
5.2. Special hazards arising from the sub	stance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release	e measures	
6.1. Personal precautions, protect	tive equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment Emergency procedures	Equip cleanup crew with proper protection.Ventilate area.	
6.2. Environmental precautions		
Prevent entry to sewers and public water	s. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.	
6.3. Methods and material for con	tainment and cleaning up	

Methods for cleaning up

Collect spillage. Store away from other materials.

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

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6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Technical measures Storage conditions Incompatible products Incompatible materials	 Comply with applicable regulations. Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Strong bases. Strong acids. Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
No additional information available
8.2. Exposure controls
Personal protective equipment: Avoid all unnecessary exposure.
Hand protection:
Wear protective gloves.
Eye protection:
Chemical goggles or face shield
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of inadequate ventilation wear respiratory protection.

Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Colour Odour Odour threshold pH Relative evaporation rate (butylacetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature	 Liquid yellowish. characteristic. No data available > 70 °C No data available
Decomposition temperature Flammability (solid, gas) Vapour pressure Relative vapour density at 20°C Relative density Solubility	 No data available No data available Non flammable. No data available
Partition coefficient n-octanol/water (Log Pow) Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidising properties Explosive limits	 No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity 10.1. Reactivity Corrosive vapours. 10.2. Chemical stability Not established. 10.3. Possibility of hazardous reactions Not established. 10.4. Conditions to avoid Direct sunlight. Extremely high or low temperatures. 10.5. Incompatible materials Strong acids. Strong bases. 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological in	nformation	
11.1. Information on toxicologic	al effects	
Acute toxicity (oral)	: Harmful if swallowed.	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	

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Betochem 3600 B-comp	
ATE CLP (oral)	1156.738 mg/kg bodyweight
benzyl alcohol (100-51-6)	
LC50 Inhalation - Rat	> 4178 mg/l/4h
Tris-2,4,6-(dimethylaminomethyl)phenol	(90-72-2)
LD50 oral rat	2169 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1916 - 2455
Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Assumed to cause serious eye damage
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - water	: Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term	: Very toxic to aquatic life.
(acute)	Manada is a secolar life with last shares for the
Hazardous to the aquatic environment, long-term (chronic)	: Very toxic to aquatic life with long lasting effects.
(chome)	

benzyl alcohol (100-51-6)	
LC50 fish 1	10 mg/l 96h
LC50 fish 2	460 mg/l 96h

Tris-2,4,6-(dimethylaminomethyl)phenol (90-72-2)	
LC50 fish 1	175 mg/l Test organisms (species): Cyprinus carpio
LC50 fish 2	180 – 240 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 72h algae (1)	84 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

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12.2. Persistence and degradability		
Betochem 3600 B-comp		
Persistence and degradability	May cause long-term adverse effects in the environment.	
12.3. Bioaccumulative potential		
Betochem 3600 B-comp		
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		

No additional information available

12.6. Other adverse effects

Additional information

: Avoid release to the environment.

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	: UN 2735 : UN 2735 : UN 2735 : UN 2735 : UN 2735
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR)	 POLYAMINES, LIQUID, CORROSIVE, N.O.S. UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS : carbomonocyclische gealkyleerde mengsels van poly-aza-alkanen, gehydrogeneerd ; 3-aminopropyldiethylamine ; 1,2 ethanediamine,N-(2-aminoethyl)-reactieproducten met glycidyltolylether), 8, I, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	 UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS : carbomonocyclische gealkyleerde mengsels van poly-aza-alkanen, gehydrogeneerd ; 3-aminopropyldiethylamine ; 1,2 ethanediamine,N-(2-aminoethyl)-reactieproducten met glycidyltolylether), 8, I, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	 UN 2735 Polyamines, liquid, corrosive, n.o.s. (CONTAINS : carbomonocyclische gealkyleerde mengsels van poly-aza-alkanen, gehydrogeneerd ; 3-aminopropyldiethylamine ; 1,2 ethanediamine,N-(2-aminoethyl)-reactieproducten met glycidyltolylether), 8, I, ENVIRONMENTALLY HAZARDOUS

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Transport document description (ADN)	: UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS : carbomonocyclische gealkyleerde mengsels van poly-aza-alkanen, gehydrogeneerd ; 3-aminopropyldiethylamine ; 1,2 ethanediamine,N-(2-aminoethyl)-reactieproducten met glycidyltolylether), 8, I, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	 UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS : carbomonocyclische gealkyleerde mengsels van poly-aza-alkanen, gehydrogeneerd ; 3-aminopropyldiethylamine ; 1,2 ethanediamine,N-(2-aminoethyl)-reactieproducten met glycidyltolylether), 8, I, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

1 (7	
ADR Transport hazard class(es) (ADR) Danger labels (ADR)	: 8 : 8
IMDG	\bullet \checkmark
Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 8 : 8
ΙΑΤΑ	Ť
Transport hazard class(es) (IATA) Danger labels (IATA)	: 8 : 8
ADN	· ·
Transport hazard class(es) (ADN) Danger labels (ADN)	: 8 : 8
RID	• ~
Transport hazard class(es) (RID) Danger labels (RID)	: 8 : 8
14.4. Packing group	
Packing group (ADR) Packing group (IMDG)	: I : I

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14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available
14.6. Special precautions for user	
Overland transport	
Classification code (ADR)	: C7
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P001
Mixed packing provisions (ADR)	: MP8, MP17
Portable tank and bulk container instructions (ADR)	: T14
Portable tank and bulk container special provisions (ADR)	: TP2, TP27
Tank code (ADR)	: L10BH
Vehicle for tank carriage	: AT
Transport category (ADR)	: 1
Special provisions for carriage - Operation (ADR)	: S20
Hazard identification number (Kemler No.)	: 88
Orange plates	· 88
	2735
Tunnel restriction code (ADR)	: E
EAC code	: 2X
APP code	: В
Transport by sea	
Special provisions (IMDG)	: 274
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P001
Tank instructions (IMDG)	: T14
Tank special provisions (IMDG)	: TP2, TP27
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Segregation (IMDG)	: SGG18, SG35
Properties and observations (IMDG)	: Colourless to yellowish liquids or solutions with a pungent odour. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Reacts violently with acids. Cause burns to skin, eyes and mucous membranes.
Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: 850
PCA max net quantity (IATA)	: 0.5L
CAO packing instructions (IATA)	: 854
CAO max net quantity (IATA)	: 2.5L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L
Inland waterway transport	
Classification code (ADN)	: C7
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	• 0

Number of blue cones/lights (ADN)

: 0

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Rail transport	
Classification code (RID)	: C7
Special provisions (RID)	: 274
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P001
Mixed packing provisions (RID)	: MP8, MP17
Portable tank and bulk container instructions (RID)	: T14
Portable tank and bulk container special provisions (RID)	: TP2, TP27
Tank codes for RID tanks (RID)	: L10BH
Special provisions for RID tanks (RID)	: TU38, TE22
Transport category (RID)	: 1
Hazard identification number (RID)	: 88

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information Data sources : 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, amending and

repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ÷

Other information

None.

Full text of H- and EUH-statements:	
Acute Tox. 1 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 1
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1	Skin corrosion/irritation, Category 1

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Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin sensitisation, Category 1
Skin sensitisation, category 1B
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
Flammable liquid and vapour.
Harmful if swallowed.
Toxic in contact with skin.
Harmful in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Causes serious eye damage.
Causes serious eye irritation.
Fatal if inhaled.
Harmful if inhaled.
May cause respiratory irritation.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

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.