

SAFETY DATA SHEET

Intercure® 1

According to Annex II of Regulation (EC) 1907/2006 (REACH)

Date: 05/2019

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1 IDENTIFICATION OF SUBSTANCE

1.1 Product Identifier:

Identification on the label/ Trade name: Intercure® 1
IUPAC name: (6-aminohexyl)carbamic acid
EC name: (6-aminohexyl)carbamic acid
EC no: 205-581-6
INDEX no: not available
CAS no: 143-06-6
Registration no: 01-21207553360-60-0000
Molecular formula: C₇H₁₆N₂O₂
Molecular weight: 160.214 g/mol

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

1.2.1 Identified uses:

Vulcanising agent for synthetic rubbers.

1.2.2 Uses advised against:

No use specifically advised against.

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

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

Email: ja@allcocks.co.uk
Tel: +44 (0)161 223 7181
Fax: + 44 (0)161 223 0173

1.4 Emergency telephone number

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

2.1.1 Classification:

According to Regulation (EC) 1272/2008 (CLP)
F1

2.2 Label Elements:

Hazard Pictograms:



Signal Word(s):

WARNING

Contains:

(6-aminohexyl)carbamic acid EINECS: 205-581-6

Hazard Statement:

H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.

Precautionary statement:

P261 Avoid breathing dust.
P280 Wear protective gloves/protective clothing/eye protection/ face protection.
P337 P313 If eye irritation persists: Get medical advice/attention.
P403 P223 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

2.3 Other hazards

Physico-chem hazards:

In the supplied for the product is not explosive at all; however the build-up of fine dust can lead to a risk of dust explosions.

Human health dangers:

See chapter 11.

Environmental hazards:

See chapter 12

Other hazards:

Further hazards were not determined with the current level of knowledge.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture:

The product in question is a substance.

Ingredients:

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EC Name	CAS No.	% by weight	EC no.	Classification GHS/CLP	Registration no.
(6-Aminoethyl)carbamic acid	143-06-6	≥ 99.5	205-581-6	H319, H315, H335	01-21207553360-60-0000

4 FIRST-AID MEASURES

4.1 Description of first aid measures:

General indications: Immediately call a Doctor if you feel unwell or in case of doubt on health conditions, showing, if possible, this safety data Sheet. The first responders must always wear appropriate personal protective equipment (see SECTION 8.2)

Contact with the eyes: Rinse cautiously with water for several minutes, holding the eyelids open. If eye irritation persists, get medical advice / Attention.

Contact with the skin: Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation / eruption occurs, Get Medical advice / attention.

Inhalation: Remove person to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, give oxygen and immediately call a doctor.

Ingestion: Rinse mouth with water. Do not induce vomiting, unless recommended by a doctor. Never give anything by mouth if the person is not conscious. If you feel unwell, immediately call a doctor.

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

The substance causes eye irritation. Contact with dust can cause mechanical irritation or drying of the skin.

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

For indication of any immediate medical attention, see SECTION 4.1. Basic first aid and symptomatic treatment'

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing Media:

Suitable: Extinguishing media suitable for class A fires

Unsuitable: Full water jet.

5.2 Specific Hazards arising from the substance or mixture:

Flammable solid. Dust may form explosive mixtures with air. In case of fire, carbon oxides, nitrogen oxides and other toxic pyrolysis products may be emitted.

5.3 Advice for fire-fighters:

Evacuate and isolate the area until complete fire extinction, by limiting access only to trained personnel. Fire-fighters must always wear appropriate protective equipment: positive pressure self-contained breathing apparatus (ref. EN 137); fireproof clothing (ref; EN 469); fireproof gloves (ref. EN 659); fire fighters boots (ref. HO A29-A30). Ensure inadequate ventilation. Avoid breathing gases/vapours and contact with eyes and skin. Stay upwind. Remove containers if it can be done without risk. Alternatively, cool the recipients exposed to fire with water spray. Prevent the contaminated extinguishing water flowing into drains or waterways.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Alert the emergency personnel. Avoid generation of dust. Avoid breathing dust and contact with eyes and skin. Wear appropriate personal protective equipment (see SECTION 8.2)

For emergency responders: Evacuate and isolate the area until complete dispersion of the substance and restrict the access only to trained personnel. Ensure adequate ventilation. Avoid generation of dust. Avoid breathing dust and contact with eyes and skin. Wear appropriate personnel protective equipment (see SECTION 8.2)

6.2 Environmental precautions:

Prevent the substance from leaking into the environment and run off into drains, surface waters and ground water.

6.3 Methods and material for containment and cleaning up:

Contain the spillage. Collect with mechanical means and transfer to a properly labelled container. Dispose of in accordance with local and national legislation. Clean surface thoroughly in order to remove residual contamination.

6.4 Reference to other sections:

For information on personal protection see SECTION 8.2. For information on disposal considerations, see SECTION 13.1

7 HANDLING AND STORAGE

7.1 Precautions for safe handling:

Ensure adequate ventilation. Avoid generation of dust. If this can't be avoided, provide local exhaust ventilation suction. Avoid breathing dust and contact with eyes and skin. Wear appropriate personal protective equipment (see SECTION 8.2). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Use explosion-proof equipment. Keep away from incompatible materials (see SECTION 10.5). Do not eat, drink, or smoke during use. Wash hands and other exposed areas after use. Wash periodically clothes and personal protective equipment to remove contaminants.

7.2 Conditions for safe storage, including any incompatibilities:

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Store only in original container, tightly closed. Store in a cool, dry and well ventilated place (temperature = 15 – 30 °C). Avoid exposure to moisture and direct sunlight. Store away from heat, hot surfaces, sparks, open flames and other ignition sources. Take precautionary measures against static discharge. Store away from incompatible materials (see SECTION 10.5).

7.3 Specific end use(s):

See SECTION 1.2.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

DNEL – Workers – Dermal – Systemic effects – Long-term = 0.167 mg/kg bw/day
DNEL – General population – Dermal – Systemic effects – Long-term = 0.083 mg/kg bw/day
DNEL – General population – Oral – Systemic effects – Long-term = 0.083 mg/kg bw/day
PNEC – Aqua (freshwater) = 0.016 mg/L
PNEC – Aqua (freshwater) – Intermittent releases = 0.162 mg/L
PNEC – Aqua (marine water) = 0.0002 mg/L
PNEC – Aqua (marine water) – Intermittent releases = 0.016 mg/L
PNEC – Sediment (fresh water) = 0.058 mg/kg sediment dw
PNEC – Sediment (marine water) = 0.0006 mg/kg sediment dw
PNEC – STP = 3.16 mg/L
PNEC – Soil = 0.002mg/kg soil dw

8.2 Exposure controls:

Wear personal protective equipment in accordance with standards set by European and national legislation. Consult the supplier in all cases before making a final decision.

Skin protection: Wear a Type 5/6 coverall (ref. EN ISO 13982-1).
Hand protection: Wear work gloves impervious to chemical agents made of nitrile rubber (protective index 6 – thickness \geq 0.4 mm ; permeation time > 480 minutes or equivalent (ref. EN374). Replace gloves immediately in case of contamination or breakage.
Eye protection: Wear safety glasses with side shields (ref: EN 166).
Respiratory protection: Not required under recommended conditions of use. In case of insufficient ventilation or risk of generation of dust, wear a mask with a P2 type filter (ref. EN 143)
Technical and hygienic measures: Provide local exhaust ventilation suction or other devices to maintain levels of particles in the air below the recommended exposure limits. Equip with emergency showers and eyewash device the areas in which handling and storage of substance takes place. Do not eat, drink, or smoke during use. Wash hands and other exposed areas after use. Wash periodically clothes and personal protective equipment to remove contaminants.
Environmental Measures: Operate in accordance with the provisions of the relevant legislation concerning the water protection and waste management. Prevent the substance from leaking into the environment and run off into drains, surface waters and groundwater.
Thermal hazards: Not expected under recommended conditions of use and storage.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

a) Appearance: White Powder (20°C – 1013 hPa)
b) Odour: Ammonia
c) Odour threshold: No experimental data available
d) pH: 9.9 (1% aqueous solution – 20°C)
e) Melting/freezing point: 159.19°C (decomposes) [ASTM E 1641 -94]
f) Initial boiling point and boiling range: 159.19 °C (decomposes) [ASTM E 1641 -94]
g) Flash point: not relevant (solid)
h) Evaporation rate: not relevant (solid)
i) Flammability (solid, gas): Flammable solid (EU Method A. 10.)
j) Upper/lower flammability or explosive limits: No experimental data available
k) Vapour pressure: 0.00989 Pa (25°C) [QSAR – EPIWeb v4.11]
l) Vapour density: not relevant (solid).
m) Relative density: 1.284 g/mL (OECD 109)
n) Solubility: 128.65 g/L (25°C) [ASTM D 1766-90]
o) Partition coefficient: n-octanol/water: Log Kow = -2.36 [QSAR – EPIWeb v4.11]
p) Auto-ignition temperature: 410°C [EU method A.16.]
q) Decomposition temperature: 159.19°C [ASTM E 1641-94]
r) Viscosity: not relevant (solid)
s) Explosive properties: not explosive [EU Method A.14]
t) Oxidising properties: not relevant (based on chemical structure).

9.2 Other information:

u) Particle size: 3.742 μ m [ASTM B 822-92]

10 STABILITY AND REACTIVITY

10.1 Reactivity:

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The substance is not reactive under recommended conditions of storage and use.

10.2 Chemical stability:

The product is stable under standard conditions of use and storage

10.3 Possibility of hazardous reactions:

Dust may form explosive mixtures with air.

10.4 Conditions to avoid:

See SECTION 7.1 and SECTION 7.2

10.5 Incompatible materials:

Acids and oxidising agents.

10.6 Hazardous decomposition products:

Following thermal decomposition, 1,6 hexanediamine and ammonia may be released.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

for more information see Annex II of Regulation (EC) 1907/2006 (REACH)

a) Acute toxicity

LD50 oral (rat) = 2875 mg/kg [OECD 439]

LD50 dermal (rat) > 2000 mg/kg [OECD 402]

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

b) Skin corrosion / irritation

RHE test (human epidermis) → not irritant [OECD 437]

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

c) Serious eye damage / irritation

BCOP test (bovine cornea) → irritant [OECD 437]

Causes serious eye irritation.

d) Respiratory or skin sensitisation

LLNA test (mouse, lymph node) → not sensitising [OECD 442B]

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

e) Germ cell mutagenicity

Ames Test → negative [OECD 471]

Micronucleus test → negative [OECD 487]

Mouse lymphoma test → negative [OECD 490]

Based on available data, the classification criteria are not met

f) Carcinogenicity

No carcinogenicity effect known.

g) Reproductive toxicity

NOAEL (oral, rat, reproductive effects) = 50mg/kg bw/day [OECD 422]

NOAEL, (oral, rat, developmental effects) ~ 1000mg/kg bw /day [OECD 422]

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

h) STOT-single exposure

No STOT effect known after single exposure

i) STOT-repeated exposure

NOAEL (oral, rat, subacute) = 50 mg/kg bw /day [OECD 422]

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

j) Aspiration hazard

No aspiration hazard known.

12 ECOLOGICAL INFORMATION

12.1. Toxicity

for more information see Annex II of Regulation (EC) 1907/2006 (REACH)

LC50 fishes (Danio rerio) > 15.7 mg/L (96 hours) [OECD 203]

EC50 invertebrates (Daphnia magna) = 16.2 mg/L (48 hours) [OECD 202]

EC50 algae (Desmodesmus subspicatus) > 100 mg/L (72 hours) [OECD 201]

EC50 microorganisms (activated sludge) = 902 mg/L (3 hours) [OECD 209]

Based on available data, the classification criteria are not met

12.2 Persistence and degradability.

Biodegradation → 84% (28 days) [OECD 301 F]

Readily biodegradable.

12.3 Bioaccumulative potential

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Log Pow < 3
Not bioaccumulative.

12.4 Mobility in soil
Koc = 0.064 [KOCWIN v 2.00 estimation]
Low potential for adsorption to sediment.

12.5 Results of PBT and vPvB assessment
The substance does not meet the criteria for PBT or vPvB classification according to Annex XIII of Regulation (EC) 1907/2006 (REACH).

12.6 Other adverse effects
The substance does not have effects on the ozone layer.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:
Do not discharge into drains. Dispose of as hazardous waste in accordance with the provisions of Directive 2008/98/EC and Decision 2000/532/EC. These provisions are also applicable to contaminated packaging. It is therefore advisable to contact the authorities or authorised companies that can give indications on how to dispose. The identification of an appropriate EWC code is a specific responsibility of the waste producer.

14 TRANSPORT INFORMATION

The substance is subject to the provisions of existing legislation governing the transport of dangerous goods by road (ADR), rail (RID), sea (IMDG Code) and air (IATA).

UN number
ADR/RID: 1325
IMDG Code: 1325
IATA: 1325

UN proper shipping name
ADR/RID: FLAMMABLE SOLID, ORGANIC, N.O.S. (6-AMINOHEXYL) CARBAMIC ACID
IMDG Code: FLAMMABLE SOLID, ORGANIC, N.O.S. (6-AMINOHEXYL) CARBAMIC ACID
IATA: FLAMMABLE SOLID, ORGANIC, N.O.S. (6-AMINOHEXYL) CARBAMIC ACID

Transport hazard class (es)
ADR/RID: 4.1
IMDG Code: 4.1
IATA: 4.1

Packing group
ADR/RID: 111
IMDG Code: 111
IATA: 111

Environmental hazards
The substance is not hazardous to the environment.

Special precautions for user
ADR/RID: Kemier no = 40
Tunnel code = (E)
IMDG Code: EMS no = F-A, S-G
IATA: -

Transport in bulk according to Annex 11 of Marpol and the IBC Code
Not applicable.

15 REGULATORY INFORMATION

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

- Regulation (EC) 1907/2006 (REACH)
- Regulation (EC) 1272/2008 (CLP)
- Directive 2012/18/EU

The substance and its impurities are not included in the following lists:

- Substances of very high concern (SVHC) included in the candidate list for Authorisation
 - Substances subjected to Authorisation procedure (Annex X1V)
 - Substances subjected to Restriction procedure (Annex XV11)
- According to Regulation (EC) 1907/2006 (REACH).

15.2 Chemical safety assessment

A chemical safety assessment has been performed for the substance.

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SECTION 16. OTHER INFORMATION

Revision:

The safety data sheet of the substance has been completely reviewed – in all its SECTIONS – on the basis of the new information available after the completion of the registration process according to Regulation (EC) 1907/2006 (REACH)

Key references and data sources:

(6-aminohexyl) carbamic acid – REACH registration dossier

Advice on any training appropriate for workers:

The staff responsible for handling the substance should be informed about its hazards and potential risks related to its use and be instructed on the precautions to be taken in order to avoid or limit exposure.

Acronyms:

ADR:	European agreement concerning the international carriage of dangerous goods by road
CAS:	chemical abstracts service
CLP:	classification, labelling and packaging
DNEL:	derived no effect level
EC:	European community
EC50:	median effective concentration
EWC:	European waste catalogue
IATA:	international air transport association
IMDG Code:	international maritime dangerous goods code
LC50:	median lethal concentration
LD50:	median lethal dose
NOAEL:	no observed adverse effect level
PBT:	persistent, bioaccumulative and toxic
PNEC:	predicted no effect concentration
REACH:	registration, evaluation, and authorisation of chemicals
RID:	regulations concerning the international carriage of dangerous goods by rail
vPvB:	very persistent and very bioaccumulative

Notes:

The information provided in this safety data sheet is correct to the best of our knowledge at the date of its publication. The indications given are designed only as a guidance for safe handling, use, processing, storage, transportation and disposal and is not to be considered a warranty of quality specification. The user must verify their suitability and completeness, also in accordance with its particular use of the substance.

Issued by:

J. Allcock & Sons Ltd.

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

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