

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Identifier

Product Name Advantex

Use of the Substance/Preparation Identified uses

Chemical intermediate

Manufacturer or supplier's details

Company/Undertaking Identification Address

Taminco N.V.
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BELGIUM

E-mail address

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Emergency Telephone Number

Emergency Telephone Number (+32) 9 254 10 36

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC

C : R34
Xn : R22
S26, S28, S36/37/39, S45

REGULATION (EC) No 1272/2008

Classification of the substance or mixture	H302 : Acute oral Tox. cat. 4 H314 : Skin Corr. cat. 1B
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Precautionary Statement - Prevention	P260 - Do not breathe dust/fume/gas/mist/vapors/spray P264 - Wash face, hands and any exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P280 - Wear protective gloves/protective clothing/eye protection/face protection
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Precautionary Statement - Response	P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P363 - Wash contaminated clothing before reuse P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing P311 - Call a POISON CENTER or doctor/physician
Precautionary Statement - Storage	P405 - Store locked up
Precautionary Statement - Disposal	P501 - Dispose of contents/container to an approved incineration plant

Label elements**Product Name**

Advantex

Hazard pictograms**Signal Word**

Danger

Hazard Statements

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

Precautionary Statements

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

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position 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

P311 - Call a POISON CENTER or doctor/physician

Other hazards**Other hazards which do not result in classification**

None known

For the full text of the R phrases mentioned in this Section, see Section 16

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Haz/Non-haz

Chemical Name	CAS-No	Weight %	EINECS	Registration number
N-Butylethanolamine	111-75-1	>90		

4. FIRST AID MEASURES

FIRST AID MEASURES

General Advice	If symptoms persist, call a physician. Show this material safety data sheet to the doctor in attendance.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Obtain medical attention
Skin Contact	Take off all contaminated clothing immediately Wash off immediately with plenty of water for at least 15 minutes Consult a physician
Inhalation	Move to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration Consult a physician
Ingestion	Do not induce vomiting If conscious, drink plenty of water Never give anything by mouth to an unconscious person Obtain medical attention

Most important symptoms and effects, both acute and delayed

- Causes skin and eye burns
- If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach

Indication of immediate medical attention and special treatment needed

- Consult a physician

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

- carbon dioxide (CO₂)
- water spray
- dry chemical
- Alcohol-resistant foam

Extinguishing media which must not be used for safety reasons

- high volume water jet

Specific Hazards Arising from the Chemical

Specific hazards

- Vapors are heavier than air and may spread along floors
- Heating or fire can release toxic gas
 - Carbon monoxide
 - Nitrogen oxides (NO_x)
 - Ammonia

Specific methods

- In the event of fire, cool tanks with water spray
- Keep product and empty container away from heat and sources of ignition
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains

Protective Equipment and Precautions for Firefighters

Wear full protective clothing and self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Avoid contact with skin, eyes and clothing
- Evacuate personnel to safe areas
- Keep people away from and upwind of spill/leak
- Wear self-contained breathing apparatus and protective suit

Environmental precautions

- Should not be released into the environment
- Remove immediately adhering matter
- Prevent product from entering drains
- Do not flush into surface water or sanitary sewer system

Methods and materials for containment and cleaning up

- Use explosion-proof equipment
- Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container
- Large spills should be collected mechanically (remove by pumping) for disposal

7. HANDLING AND STORAGE

Precautions for safe handling

- Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours)
- Use only in area provided with appropriate exhaust ventilation
- Use spark-proof tools and explosion-proof equipment
- Wear personal protective equipment
- Do not eat, drink or smoke when using this product
- Wash hands after handling
- Remove contaminated clothing and protective equipment before entering eating areas
- Ensure that eyewash stations and safety showers are close to the workstation location
- Avoid breathing vapors or mists

Conditions for safe storage, including any incompatibilities

- In accordance with local and national regulations
- Keep away from open flames, hot surfaces and sources of ignition
- Store in original container
- Keep container tightly closed
- Keep in a dry, cool and well-ventilated place

Specific end uses

See also section 1

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Exposure controls

Engineering Controls • Local exhaust

Personal Protective Equipment

Eye/face Protection • Tightly fitting safety goggles

• Face-shield

• Respirator with a full face mask

Skin Protection

• Wear suitable protective equipment

• Complete suit protecting against chemicals

Hand Protection

• Neoprene gloves

• Solvent-resistant gloves (butyl-rubber)

• The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it

• The suitability for a specific workplace should be discussed with the producers of the protective gloves

Respiratory Protection

• In the case of vapor formation use a respirator with filter model K

• self-contained breathing apparatus (EN 133)

(in case of higher concentration)

Environmental exposure controls • Prevent product from entering drains

• Do not contaminate surface water

• Avoid subsoil penetration

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State

Liquid

Color

Colorless

to

light yellow

Odor

Slight

Important Health Safety and Environmental Information

Boiling Point/Range

199°C

Flash Point

96°C

Viscosity

No information available

Vapor Pressure

< 0.13 mbar @ 20 °C

Vapor Density

3.6 kg/m³

Partition coefficient: n-octanol/water

log Pow 0.33

pH

No data available

Water solubility

Completely soluble

Oxidizing Properties

Not applicable

Explosive Properties

No information available

Melting Point/Range	-18°C
Density	0.89 g/cm ³ @ 20 °C
Flammability	The product is not flammable
Autoignition Temperature	340°C
Dissociation constant	pKa: 10

10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

- Stable under normal conditions
- Hazardous polymerisation does not occur

Possibility of hazardous reactions

None under normal processing

Conditions to Avoid

- Temperatures above 50°C
- Heat, flames and sparks
- Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors)

Incompatible materials to avoid

- Strong oxidizing agents

Hazardous Decomposition Products

- Heating or fire can release toxic gas
 - Nitrogen oxides (NO_x)
 - Carbon oxides

11. TOXICOLOGICAL INFORMATION

Product Information

LD50/oral/rat =	1150 mg/kg
LD50/dermal/rabbit =	> 2000 mg/kg
LC50 Inhalation	An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration
Eye irritation	Corrosive
Skin irritation	Corrosive
Sensitization	No information available

Human experience

Human experience	Causes skin and eye burns If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach
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12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish	No information available
Toxicity to daphnia	No information available
Toxicity to algae	No information available
Toxicity to bacteria	- No information available

Mobility

No information available

Persistence and degradability

No information available

Bioaccumulative Potential

minimum

Results of PBT and vPvB assessment

- This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)
- This substance is not considered to be very persistent nor very bioaccumulating (vPvB)

Other adverse effects

None known based on information supplied

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

- Should not be released into the environment
- Dispose of in accordance with local regulations

Contaminated Packaging

- Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

Road transport

Class	8
UN-No	UN2735
Packing Group	II
Marine pollutant	no
Proper Shipping Name	Amines, liquid, corrosive, n.o.s. (contains butylaminoethanol)
Hazard Indicator	80

Sea transport

Class	8
UN-No	UN2735
Packing Group	II
Marine pollutant	no
Proper Shipping Name	Amines, liquid, corrosive, n.o.s. (contains butylaminoethanol)

14. TRANSPORT INFORMATION

Air transport

Class	8
UN-No	UN2735
Packing Group	II
Marine pollutant	no
Proper Shipping Name	Amines, liquid, corrosive, n.o.s. (contains butylaminoethanol)

15. REGULATORY INFORMATION

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

International Inventories

Chemical Name	TSCA	EINECS	DSL	ENCS	AICS
N-Butylethanolamine	X	x	DSL - Listed	X	Listed.

Chemical Safety Assessment

- no data available

16. OTHER INFORMATION

This data sheet contains changes from the previous version in section(s)

Revision Date	25-Nov-2010
Reason for revision	Classification and hazard labeling
Literary Reference	-Chemiekaarten : 25th ed. - 2010 -Taminco Proprietary Studies

List of relevant R-phrases

- R22 - Harmful if swallowed
- R34 - Causes burns
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S28 - After contact with skin, wash immediately with plenty of soap and water
- S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection
- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Training advice

Provide adequate information, instruction and training for operators

Further information for the material safety data sheet

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

End of Material Safety Data Sheet

