

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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

#### 1.1 Product identifier

 Trade name
 : Amyl Nitrite

 Product code
 : A0455

 Index-No.
 : 007-020-00-9

 EC-No.
 : 207-332-7

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

Use of the Substance/Mixture : Use as laboratory reagent

### 1.3 Details of the supplier of the safety data sheet

Company : TCI EUROPE N.V.

Address : Boereveldseweg 6 - Haven 1063, B-2070 Zwijndrecht, Belgium

Telephone : +32 (0)3 735 07 00
Telefax : +32 (0)3 735 07 01
E-mail address of person respon- : sales-eu@tcichemicals.com

sible for the SDS

#### 1.4 Emergency telephone number

Emergency telephone number : +44 844 892 0111

#### **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

Acute toxicity, Category 4 H302: Harmful if swallowed. Acute toxicity, Category 4 H332: Harmful if inhaled.

#### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :





Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

H302 + H332 Harmful if swallowed or if inhaled.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking. P233 Keep container tightly closed.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately

all contaminated clothing. Rinse skin with water.

P370 + P378 In case of fire: Use dry sand, dry chemical or alco-

hol-resistant foam to extinguish.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

 Substance name
 : Amyl Nitrite

 Index-No.
 : 007-020-00-9

 EC-No.
 : 207-332-7

### Components

Chemical name	CAS RN EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
Amyl Nitrite	463-04-7 207-332-7	>= 90 - <= 100	

## **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

If inhaled : Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/ physician if you feel unwell.

In case of skin contact : Take off all contaminated clothing immediately.

If on skin, rinse well with water.

If skin irritation or rash occurs: Get medical advice/ attention.

In case of eye contact : Rinse with plenty of water.

If easy to do, remove contact lens, if worn.

If eye irritation persists: Get medical advice/ attention.

If swallowed : Call a POISON CENTER or doctor/ physician if you feel unwell.

Rinse mouth.

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

Symptoms : Cyanosis

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

None known.

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media : Dry powder, Foam, Water spray, Carbon dioxide (CO2)

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

No information available.

### 5.3 Advice for firefighters

Special protective equipment for :

Use personal protective equipment.

firefighters

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circum-

stances and the surrounding environment. Immediately evacuate personnel to safe areas. Cool closed containers exposed to fire with water spray. Remove undamaged containers from fire area if it is

safe to do so.

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective equipment. Keep people away from and

upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by

roping off, etc.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Collect as much of the spill as possible with a suitable absorbent

material

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Technical measures : Prevent generation of vapour or mist.

Take precautionary measures against static discharge.

Use explosion-proof equipment.

Local/Total ventilation : Ensure adequate ventilation.

Use a local exhaust ventilation.

Advice on safe handling : Avoid contact with skin, eyes and clothing.

Wear personal protective equipment.

Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

Do not subject to grinding, shock or friction.

Wash hands and face thoroughly after handling.

Open drum carefully as content may be under pressure.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas

and containers

Keep container tightly closed. Store in a refrigerator. Keep in a wellventilated place. Use explosion-proof equipment. Keep under inert

gas. Avoid shock and friction. Avoid exposure to light.

Storage class (TRGS 510) : 3

7.3 Specific end use(s)

Specific use(s) : No information available.

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

### **Engineering measures**

Install a closed system or local exhaust. Also install safety shower and eye bath.

## Personal protective equipment

Eye/face protection : Safety glasses, Face-shield

Hand protection : Protective gloves Skin and body protection : Protective suit

Respiratory protection : Gas mask

\*Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : white - yellow
Odour : No data available
Odour Threshold : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : 104 °C

Flammability : No data available Upper explosion limit/Upper : No data available

flammability limit

Lower explosion limit / Lower : 1 %(V)

flammability limit

Flash point : -18 °C Auto-ignition temperature : 210 °C

Decomposition temperature : No data available pH : No data available

Viscosity

Viscosity, dynamic : No data available Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : very slightly soluble, Decomposes in contact with water.

Solubility in other solvents : Solvent: Ether

completely miscible

Solvent: Chloroform completely miscible

Solvent: Ethanol completely miscible

Partition coefficient: n- : No data available

octanol/water

Vapour pressure : No data available

Relative density : 0,88
Relative vapour density : 4,0

Particle characteristics : No data available

9.2 Other information

Refractive index : 1,39

Molecular weight : 117,15 g/mol

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No data available

#### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : May explosively decompose on heating, shock, friction, etc.

10.4 Conditions to avoid

Conditions to avoid : Heat, Electrical spark, Open flame, Electrostatic discharge, Avoid

shock and friction., Exposure to air., Exposure to light.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents,

Reducing agents, Strong acids,

### 10.6 Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx)

## **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

## **Acute toxicity**

**Product:** 

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single

ingestion

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short

term inhalation.

**Components:** 

**Amyl Nitrite:** 

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single

ingestion.

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short

term inhalation.

Acute toxicity (other routes of

administration)

LDLo (Mouse): 30 g/kg

Application Route: Subcutaneous

Skin corrosion/irritation
Serious eye damage/eye irrita-

tion

No information available.

No information available.

Respiratory or skin sensitisa-

tion

No information available.

Germ cell mutagenicity No information available. No information available. Carcinogenicity Reproductive toxicity No information available. STOT - single exposure No information available. No information available. STOT - repeated exposure Repeated dose toxicity No information available. **Aspiration hazard** No information available. RTECS No. RA1140000 (Amyl Nitrite)

### 11.2 Information on other hazards

## **Endocrine disrupting properties**

**Product:** 

Assessment : The substance/mixture does not contain components considered to

have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

## **Product:**

Assessment : This substance/mixture contains no components considered to be

either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

#### **Product:**

Assessment : The substance/mixture does not contain components considered to

have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### 12.7 Other adverse effects

No data available

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product : Disposal in accordance with local and national regulations.

Take precautions against ignition or explode.

Entrust disposal to a licensed waste disposal company.

Contaminated packaging : Disposal in accordance with local and national regulations.

Before disposal of used container, remove contents completely.

## **SECTION 14: Transport information**

## 14.1 UN number or ID number

 ADR
 : UN 1113

 IMDG
 : UN 1113

 IATA
 : UN 1113

14.2 UN proper shipping name

ADR : AMYL NITRITE

IMDG : AMYL NITRITE

IATA : Amyl nitrite

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR : 3
IMDG : 3

IATA : 3

## 14.4 Packing group

**ADR** 

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Tunnel restriction code : (D/E)

**IMDG** 

Packing group : II

EmS Code : F-E, S-D

IATA (Cargo)

Packing instruction (cargo air- : 364

craft)

Packing instruction (LQ) : Y341
Packing group : II

IATA (Passenger)

Packing instruction (passenger : 353

aircraft)

Packing instruction (LQ) : Y341
Packing group : II

#### 14.5 Environmental hazards

**ADR** 

Environmentally hazardous : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles (Annex XVII)

Conditions of restriction for the following

entries should be considered: Number on list 40, 3

Regulation (EC) No 649/2012 of the European Parliament and

the Council concerning the export and import of dangerous

chemicals

Not applicable

REACH - Candidate List of Substances of Very High Concern

for Authorisation (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the

ozone layer

Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

REACH - List of substances subject to authorisation (Annex : Not applicable

XIV)

Water hazard class (Germany) : WGK 3 highly hazardous to water

Classification according to AwSV, Annex 1 (5.2)

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations,

where applicable.

#### The components of this product are reported in the following inventories:

CH BAGREG : On the inventory, or in compliance with the inventory

TSCA : Substance(s) not active on TSCA inventory

AICS : On the inventory, or in compliance with the inventory

DSL : None of the components of this product are on the Canadian DSL,

but all are on the NDSL

Amyl Nitrite

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

### **SECTION 16: Other information**

### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AllC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR -(Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

This SDS was prepared sincerely based on the information obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling operations, sufficient care should be taken, in addition to the safety measures suitable for the given situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

DE / 6N