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	: Isoamyl Acetate [for Spectrophotometry]
Product code	: A0264
Index-No.	: 607-130-00-2
EC-No.	: 204-662-3

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

	s one address of person respon-	: : :	TCI EUROPE N.V. Boereveldseweg 6 - Haven 1063, B-2070 Zwijndrecht, Belgium +32 (0)3 735 07 00 +32 (0)3 735 07 01 sales-eu@tcichemicals.com
	r the SDS		
Telefax E-mail sible fo	address of person respon-	:	+32 (0)3 735 07 01

1.4 Emergency telephone number

Emergency telephone number	:	+44 844 892 0111
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 Skin irritation, Category 2 Eye irritation, Category 2 Specific target organ toxicity - single exposure, Category 3, Central nervous system Specific target organ toxicity - single exposure, Category 3, Respiratory system Specific target organ toxicity - repeated exposure, Category 1, Eyes H226: Flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H335: May cause respiratory irritation.

H372: Causes damage to organs through prolonged or repeated exposure.

2.2 Label elements

2 Label elements	
Labelling (REGULATION (EC) No	o 1272/2008)
Hazard pictograms :	
Signal word : Hazard statements :	Danger H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H372 Causes damage to organs (Eyes) through prolonged or re- peated exposure.
Precautionary statements :	Prevention:
	 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P303 + P361 + P353IF ON SKIN (or hair): Take off immediately
all contaminated clothing. Rinse skin with water.P370 + P378In 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	:	Isoamyl Acetate [for Spectrophotometry]
Index-No.	:	607-130-00-2
EC-No.	:	204-662-3

Components

Chemical name	CAS RN EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
Isoamyl Acetate	123-92-2 204-662-3	>= 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 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	: Get medical advice/ attention. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

None known.

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)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- : No information available. fighting

5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Use personal protective equipment.
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circum- stances and the surrounding environment. Immediately evacuate personnel to safe areas. 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 containn	ne	nt 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. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. 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.
7.2 Conditions for safe storage, incl	ludi	ng any incompatibilities
Requirements for storage areas and containers	:	Keep container tightly closed. Store in a cool and shaded area. Keep in a well-ventilated place. Use explosion-proof equipment. Store locked up.
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

Occupational Exposure Limits

Components CAS RN	Value type (Form of exposure)	Control parameters	Basis
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Isoamyl Acetate	123-92-2	TWA	50 ppm 270 mg/m3	2000/39/EC		
	Further infor	Further information: Indicative				
		STEL	100 ppm 540 mg/m3	2000/39/EC		
	Further infor	Further information: Indicative				
		AGW	50 ppm 270 mg/m3	DE TRGS 900		
Peak-limit: excursion factor (category): 1;(I)						

8.2 Exposure controls

9.2

Engineering measures

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

Personal protective equipment						
Eye/face protection Hand protection Skin and body protection	:	Safety glasses, Safety goggles, Face-shield Impervious gloves Impervious protective clothing				
Respiratory protection	:	Gas mask Self-contained breathing apparatus				

*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 Colour Odour Odour Threshold Melting point/freezing point Boiling point/boiling range Flammability Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit Flash point Auto-ignition temperature Decomposition temperature pH Viscosity, dynamic Viscosity, kinematic Solubility(ies) Water solubility Solubility in other solvents	 liquid colourless No data available 0,025 ppm No data available 142 °C No data available 7,5 %(V) 1 %(V) 38 °C 379 °C No data available Solvent: Ether completely miscible Solvent: Alcohol completely miscible
Partition coefficient: n- octanol/water Vapour pressure Relative density Relative vapour density Particle characteristics Other information Refractive index	 2,13 0,53 kPa (20 °C) 0,87 4,5 No data available 1,40

Molecular weight : 130,19 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 :	None under normal processing.			
10.4 Conditions to avoid				
Conditions to avoid :	Electrical spark, Open flame, Electrostatic discharge			
10.5 Incompatible materials				
Materials to avoid :	Oxidizing agents, Reducing agents, Strong acids, Strong bases,			
10.6 Hazardous decomposition products				

Carbon monoxide, Carbon dioxide (CO2)

SECTION 11: Toxicological information

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

Acute toxicity		
Components:		
Isoamyl Acetate: Acute oral toxicity		LD50 (Rat): 16 600 mg/kg
Acute oral toxicity	•	Assessment: The substance or mixture has no acute oral toxicity
Acute toxicity (other routes of administration)	:	LDLo (Rabbit): 5 g/kg Application Route: Subcutaneous
Skin corrosion/irritation		
Product:		
Result	:	Skin irritation
Components:		
Isoamyl Acetate:		
Result	:	Skin irritation
Serious eye damage/eye irritat	ion	
Product:		
Result	:	Eye irritation
Components:		
Isoamyl Acetate:		
Result	:	Eye irritation
Respiratory or skin sensitisa- tion	:	No information available.

Germ cell mutagenicity Carcinogenicity Reproductive toxicity	: : :	No information available. No information available. No information available.
STOT - single exposure		
Product: Assessment	:	May cause respiratory irritation., May cause drowsiness or dizziness.
Components:		
Isoamyl Acetate:		
Assessment	:	May cause respiratory irritation., May cause drowsiness or dizziness.
STOT - repeated exposure		
Product:		
Target Organs Assessment	:	Eyes Causes damage to organs through prolonged or repeated exposure.
Components:		
Isoamyl Acetate:		
Target Organs Assessment	:	Eyes Causes damage to organs through prolonged or repeated exposure.
Repeated dose toxicity	:	No information available.
Aspiration hazard RTECS No.	:	No information available. NS9800000 (Isoamyl Acetate)

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				
Components:				
Isoamyl Acetate: Partition coefficient: n- : 2,13 octanol/water				
12.4 Mobility in soil No data available				
12.5 Results of PBT and vPvB assessment				
Product:				

Version 1.1

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 Com- mission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse effects No data available	
SECTION 13: Disposal conside	erations
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			
AD	R	:	UN 1104	
IMI	DG	:	UN 1104	
ΙΑΤ	ΓA	:	UN 1104	
14.2 UN	proper shipping name			
AD	R	:	AMYL ACETATES	
IME	DG	:	AMYL ACETATES	
ΙΑΤ	ΓA	:	Amyl acetates	
14.3 Tra	nsport hazard class(es)			
			Class	Subsidiary risks
AD	R	:	3	
IME	DG	:	3	
ΙΑΤ	ΓA	:	3	
14.4 Pac	cking group			
Cla Ha:	R cking group assification Code zard Identification Number nnel restriction code	:	III F1 30 (D/E)	
	DG cking group IS Code	:	III F-E, S-D	
Pao cra Pao	Γ Α (Cargo) cking instruction (cargo air- ft) cking instruction (LQ) cking group	:	366 Y344 III	

IATA (Passenger) Packing instruction (passenger	:	355
aircraft)		
Packing instruction (LQ)	:	Y344
Packing group	:	111

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 mar- ket 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 XIV)	:	Not applicable

Water hazard class (Germany) : WGK 1 slightly hazardous to water Classification according to AwSV, Annex 1 (5.2)

Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

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	:	All substances listed as active on the TSCA inventory
AICS	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory

KECI	:	On the inventory, or 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

2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
DE TRGS 900 2000/39/EC / TWA	:	Germany. TRGS 900 - Occupational exposure limit values. Limit Value - eight hours
2000/39/EC / STEL DE TRGS 900 / AGW		Short term exposure limit Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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