



TAG SOLVENT PRODUCTS (PTY) LTD.

MATERIAL SAFETY DATA SHEET

ISO BUTYL ACETATE

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common name	Iso Butyl Acetate		
Supplier	: TAG Solvent Products Mallet Road/Weg Knights Germiston 1401 Republic of South Africa TEL: +27 11 280-0000		
Synonym	n-Propyl acetate , 1-Propyl acetate, Propyl ester		
Trade name	Iso Butyl Acetate		
Manufacturer	Halterman B.V.B.A. Halterman Products Ketenislaan 3 B-9130 Kallo (Kieldrecht)	In case of emergency	TAG: 011 822 1600

2 COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS#	EIENECS Number	EC Number
IsoButyl Acetate	110-19-0	203-745-1	607-026-00-7

3 HAZARDS IDENTIFICATION

Hazard designation	: F Highly Flammable
Health Hazards	: At long or repeated contact with skin it may caused dermatitis due to the degreasing effect of the solvent : Repeated exposure may cause skin dryness or cracking
Environmental Hazards	: Expected to be harmful to aquatic organism. May cause long-term adverse effects in the aquatic environment.

See toxicological information (section 11)

4 *FIRST AID MEASURES*

General Information	:
Inhalation	: After inhalation - Supply fresh air ; Consult doctor in case of symptoms
Skin Contact	: The product is not skin irritating
Eye Contact	: Flush eyes with water while holding eyelids open.
Ingestion	: In case of persistent symptoms consult doctor.

5 *FIRE FIGHTING MEASURES*

Clear fire area of all non-emergency personnel.

Suitable extinguishing agents	: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resisting foam.
Unsuitable Extinguishing Media	: Do not use water in a jet
Protective Equipment for Fire-fighters	: No special measures required
Additional Advice	: Keep adjacent containers cool by spraying with water.

6 *ACCIDENTAL RELEASE MEASURES*

Observe all relevant local and international regulations.

Protective measures	: Person-related safety precautions- wear protective equipment. Keep unprotected persons away.
Measures for Environmental protection	: Do not allow product to reach sewage system or water bodies. Prevent product from reaching sewage systems, holes and cellars. Inform respective authorities in case product reached water or sewage system.
Measures for Cleaning / Collection	: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

7 *HANDLING AND STORAGE*

General Precautions	
Handling	: Keep containers tightly sealed. Store in a cool, dry place in tightly closed containers. Ensure good ventilation / exhaustion in the workplace Prevent formation of aerosols.
Information about protection against explosions and fires:	Keep Ignition sources away – Do not smoke. Protect against electrostatic charges.
Storage Requirements to be met by storerooms and containers:	: Storage Temperature: Store in a cool location.
Container Advice	: Containers, Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

8	EXPOSURE CONTROLS, PERSONAL PROTECTION
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Occupational Exposure Limits

In the absence of occupational; exposure standards for this product, it is recommended that the following are adopted.

UK Workplace Exposure Limits

OEL Short term value: 903 mg/m³, 187 ppm

Long term value: 724mg/m³, 15.ppm

Additional Information	
Personal protective equipment	
General protective & Hygienic measures:	: Wash hands during breaks and at the end of the work.
Breathing equipment:	: In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
Hand Protection	: The glove material has to be impermeable and resistant to the product / the substance / the preparation. Due to missing tests no recommendation to the glove material can be given for the product / the preparation / the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. <u>Material of Gloves:</u> The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. <u>Penetration time of Glove material:</u> The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye Protection	: Tightly sealed safety glasses

9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance	: Colourless. Liquid.
Odour	: fruit-like
PH	: 6 Ph Value (4g/l) @ 20°C
Boiling point	: 117°C
Melting Point. / Melting range	: -98.85°C
Ignition Temperature	: 405°C
Flash point	: 18°C
Explosion / Flammability Limits in air	: Product is not explosive. However, formation of explosive air/steam mixtures is possible.
Critical values for explosion,	: LOWER - 2.4 Vol % UPPER - 10.5 Vol %
Density @ 20° C S/G	: 0.875 g/cm ³
Solubility in water @ 20°C	: 7 g/l

10 STABILITY AND REACTIVITY

Conditions to Avoid	: No decomposition is used according to specifications.
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11 TOXICOLOGICAL INFORMATION

Basis for Assessment	: Information given is based on product testing, and/or similar products, and/or components.
Oral	: LD50 > 4763 mg/kg mg/kg ., Rabbit
Skin	: No irritant effect.
Eye Irritation	: Expected to be non-irritating to eyes.
Sensitization	: No sensitizing effect known.

12 ECOLOGICAL INFORMATION

General Notes	: Water hazard class 1 (Assessment by list) – slightly hazardous for water. Do not allow undiluted product or larger quantities of it to reach ground water, water bodies or sewage system.
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13 DISPOSAL CONSIDERATIONS

Material Disposal	: PRODUCT – Recommended that it must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Container Disposal	: Containers – Disposal must be made according to official regulations.
Local Legislation	: Disposal should be in accordance with applicable regional, national, and Local laws and regulations. Local regulations may be more stringent than Regional or national requirements and must be complied with.

14 TRANSPORT INFORMATION**LAND TRANSPORT ADR/RID and GGVS/GGVE (cross-border domestic)**

UN NUMBER	1213
Kemler Number	33
ADR/RID-GGVS/GGVE CLASS	: 3 FLAMMABLE LIQUIDS
PACKAGING GROUP	11
LABEL	3
DESIGNATION OF GOODS	1213 ISOBUTYL ACETATE

MARITIME TRANSPORT IMDG/GGVSea

UN NUMBER	1213
IMDG/GGVSea Class	3
EMS Number	F-E,S-D
PACKAGING GROUP	11
LABEL	3
CORRECT TECHNICAL NAME	1213 ISOBUTYL ACETATE
MARINE POLLUTANT	NO

AIR TRANSPORT ICAO-TI and IATA-DGR:

UN NUMBER	1213
ICAO/IATA Class	3
PACKAGING GROUP	11
LABEL	3
CORRECT TECHNICAL NAME	1213 ISOBUTYL ACETATE

15 REGULATORY INFORMATION

Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on hazardous Materials (GefStoffV)

Code letter and hazard designation of product	: F Highly Flammable
Risk Phrases	: 11 Highly Flammable 66 Repeated exposure may cause skin dryness or cracking.
EC Safety Phrases	2 Keep out of reach of children 16 Keep away from sources of ignition – No smoking. 23 Do not breathe gas/fumes/vapour/spray 25 Avoid contact with eyes. 29 Do not empty into drains. 33 Take precautionary measures against static discharge.
Technical Instructions (Air)	Class 111 Share in % 50 - 100
Water Hazard Class	Water hazard class 1 (Assessment by list): Slightly hazardous for water.

16 OTHER INFORMATION

Disclaimer	: 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.
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Notice to reader:

This MSDS summarizes at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product, and in particular how to safely handle uses and transport the product in the workplace. Since TAG Solvent Products (PTY) LTD. and it's subsidiaries cannot anticipate or control the conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review MSDS in the context of how the user intends to handle, use, store or transport the product in the workplace and beyond, and communicate such information to all relevant parties. If clarification or further information is required to ensure that an appropriate assessment can be made, the user should contact the company.

We shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given unless there has been gross negligence on our part. In such event our liability shall be limited only to direct damages suffered. Our responsibility for the product as sold is subject to our standards terms and conditions, a copy of which is sent to our customers and is also available upon request. All risk with possession and application of the product passes on delivery.