Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))
B105 - B105

Master item code: B 105

Safety Data Sheet date: 11/12/2023, version 1

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

1.1. Product identifier

Trade name: B105
SDS code: B105
UFI: F8UE-00RN-D00V-MYUW

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

Recommended use:
Solvent

1.3. Details of the supplier of the safety data sheet

Manufacturers:
BABBCO
15, rue des Frères Lumière Z.I. des EBISOIRES 78370 PLAISIR (France)
Tel: +33 (0)1.30.80.81.82
www.babbco.fr
Distributors:
BabbCo-Socomore NDT Division
BABBCO
SHERWIN-BABBCO
Tel: +33 (0)1.30.80.81.82
www.babbco.fr
Competent person responsible for the safety data sheet:
e-mail: regulatoryservice@babbco.fr

1.4. Emergency telephone number

France : ORFILA (INRS) +33 (0)1 45 42 59 59
International : CHEMTEL +1-813-248-0585.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)


Danger, Flam. Liq. 2, Highly flammable liquid and vapour.


Warning, Eye Irrit. 2, Causes serious eye irritation.


Warning, STOT SE 3, May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements

Hazard pictograms:

Danger

Hazard statements:
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
Precautionary statements:
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.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P370+P378 In case of fire: Use ... to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
Special Provisions:
EUH066 Repeated exposure may cause skin dryness or cracking.
Contains
ethyl acetate
Special provisions according to Annex XVII of REACH and subsequent amendments:
None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 90%	ethyl acetate	Index number: 607-022-00-5 CAS: 141-78-6 EC: 205-500-4 REACH No.: 01-2119475103-46	2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H336 EUH066

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:
Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.
Wash thoroughly the body (shower or bath).
Remove contaminated clothing immediately and dispose of safely.
After contact with skin, wash immediately with soap and plenty of water.
In case of eyes contact:
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.
Protect uninjured eye.
In case of Ingestion:
Do not induce vomiting. Obtain a medical examination.
In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
No particular treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Foam.
Multipurpose powders class ABC
Water haze
Extinguishing media which must not be used for safety reasons:
Spray water

5.2. Special hazards arising from the substance or mixture

Carbon monoxide and carbon dioxide

5.3. Advice for firefighters

Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove all sources of ignition.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:
Ensure adequate ventilation
For cleaning up:
Ensure adequate ventilation
Absorb spillage as quickly as possible using inert solids such as clay or diatomaceous earth. clay or diatomaceous earth. Store away from other materials. Wash soiled area with water

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of aerosols
Advice on general occupational hygiene:
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Avoid vapor emissions.
Always keep in a well ventilated place.
Store at ambient temperatures. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:

None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

ethyl acetate - CAS: 141-78-6

- OEL Type: ACGIH - TWA(8h): 400 ppm - Notes: URT and eye irr
- OEL Type: EU - TWA(8h): 734 mg/m3, 200 ppm - STEL: 1468 mg/m3, 400 ppm
- OEL Type: National - TWA(8h): 550 mg/m3, 150 ppm - STEL: 1100 mg/m3, 300 ppm - Notes: Netherlands
- OEL Type: National - TWA(8h): 1461 mg/m3, 400 ppm - Notes: Belgium
- OEL Type: National - TWA(8h): 1500 mg/m3, 400 ppm - Notes: Germany
- OEL Type: National - TWA(8h): 1400 mg/m3, 400 ppm - Notes: France
- OEL Type: National - TWA(8h): 200 ppm - STEL: 400 ppm - Notes: UK

DNEL Exposure Limit Values

ethyl acetate - CAS: 141-78-6

Worker Professional: 1468 mg/m3 - Consumer: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 1468 mg/m3 - Consumer: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Professional: 63 mg/kg b.w./day - Consumer: 37 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 734 mg/m3 - Consumer: 367 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 734 mg/m3 - Consumer: 4.5 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, local effects

PNEC Exposure Limit Values

ethyl acetate - CAS: 141-78-6

Target: Fresh Water - Value: 0.26 mg/l
Target: Marine water - Value: 0.026 mg/l
Target: Freshwater sediments - Value: 1.25 mg/kg
Target: Marine water sediments - Value: 0.125 mg/kg
Target: Soil (agricultural) - Value: 0.24 mg/kg
Target: Microorganisms in sewage treatments - Value: 650 mg/l

Biological Exposure Index

N.A.

8.2. Exposure controls

See below, example of PPE to use.

Eye protection:
Eye glasses with side protection.
Protection for skin:
Chemical protection clothing.
Protection for hands:
NR (natural rubber, natural latex).
Respiratory protection:
Mask with filter "A" , brown colour
Mask with filter "P", white colour

Thermal Hazards:
None
Environmental exposure controls:
None
Appropriate engineering controls:
None
Other conditions affecting workers exposure:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Not Relevant	--	--
Colour:	White	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	-83.57°C	--	--
Boiling point or initial boiling point and boiling range:	77°C	--	--
Flammability:	Flam. Liq. 2, H225	--	--
Lower and upper explosion limit:	Lower: 2.1Vol % Upper: 11.5Vol%	--	--
Flash point (°C):	-5°C	ASTM D93	--
Auto-ignition temperature:	460°C	--	--
Decomposition temperature:	Not Relevant	--	--
pH:	Not Relevant	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	79g/l	--	--
Solubility in oil:	Not Relevant	--	--
Partition coefficient n-octanol/water (log value):	Not Relevant	--	--
Vapour pressure:	97hPA	--	--
Density and/or relative density:	N.A.	--	--
Relative vapour density:	Not Relevant	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

No other relevant information

Volatile Organic compounds - VOCs = 100 %

N.A. = not available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

React with oxidising agents

10.4. Conditions to avoid
Stable under normal conditions.
10.5. Incompatible materials
Avoid contact with combustible materials. The product could catch fire.
10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Toxicological information of the product:
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Acute toxicity
Not classified
Based on available data, the classification criteria are not met
Skin corrosion/irritation
Not classified
Based on available data, the classification criteria are not met
Serious eye damage/irritation
The product is classified: Eye Irrit. 2 H319
Respiratory or skin sensitisation
Not classified
Based on available data, the classification criteria are not met
Germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
Carcinogenicity
Not classified
Based on available data, the classification criteria are not met
Reproductive toxicity
Not classified
Based on available data, the classification criteria are not met
STOT-single exposure
The product is classified: STOT SE 3 H336
STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
Aspiration hazard
Not classified
Based on available data, the classification criteria are not met
Toxicological information of the main substances found in the product:
ethyl acetate - CAS: 141-78-6
Acute toxicity:
Test: LD50 - Route: Oral - Species: Mouse = 4100 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 20000 mg/kg bw/day
Test: LC50 - Route: Inhalation - Species: Rat > 22.5 mg/l - Notes: 6h
Reproductive toxicity:
Test: NOAEC - Species: Rat = 73300 mg/m3 - Duration: 1-19 days - Source: OECD 414 - Notes: Histopathologic modification

11.2. Information on other hazards
Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

Other toxicological information:
ethyl acetate

NOAEC, equivalent to OECD 424,750 ppm, 99-100 days, rat, effect: neurotoxic effects

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

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Not classified for environmental hazards

Based on available data, the classification criteria are not met

ethyl acetate - CAS: 141-78-6

a) Aquatic acute toxicity:

Endpoint: NOEC - Species: Algae > 1000 mg/l - Duration h: 48 - Notes: Scenedesmus pannonicus

Endpoint: EC50 - Species: Daphnia = 165 mg/l - Duration h: 48

Endpoint: LC50 = 180 mg/l - Duration h: 48 - Notes: Xenopus laevis

Endpoint: LC50 - Species: Fish = 230 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: LC50 - Species: Algae = 5600 mg/l - Duration h: 48 - Notes: Desmodesmus subspicatus

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish < 9.65 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: NOEC - Species: Daphnia = 2.4 mg/l - Duration h: 504

12.2. Persistence and degradability

ethyl acetate - CAS: 141-78-6

Biodegradability: Biodegradability rate - Duration: 20 days - %: 69

12.3. Bioaccumulative potential

ethyl acetate - CAS: 141-78-6

BCF - Test: BCF - Bioconcentrantion factor 30 - Duration: 3 days - Notes: Leucisccus Idus

Log Pow 0.68 - Notes: 25°C

12.4. Mobility in soil

ethyl acetate - CAS: 141-78-6

Log Poc 8.6%

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

No harmful effects expected.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Codes of wastes (Décision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):

07 07 04* other organic solvents, washing liquids and mother liquors

Additional disposal information:

Disposal should be in accordance with applicable regional, national and local laws and regulations. Please consult Technical Data Sheet for details.

SECTION 14: Transport information

14.1. UN number or ID number

ADR-UN Number:	UN1173
IATA-UN Number:	UN1173
IMDG-UN Number:	UN1173

14.2. UN proper shipping name

ADR-Shipping Name:	ETHYL ACETATE
IATA-Shipping Name:	ETHYL ACETATE
IMDG-Shipping Name:	ETHYL ACETATE

14.3. Transport hazard class(es)

ADR-Class:	3
ADR-Label:	3
IATA-Class:	3
IATA-Label:	3
IMDG-Class:	3
IMDG-Class:	3

14.4. Packing group

ADR-Packing Group:	II
IATA-Packing group:	II
IMDG-Packing group:	II

14.5. Environmental hazards

ADR-Enviromental Pollutant:	No
IMDG-Marine pollutant:	No
IMDG-EmS:	F-E , S-D

14.6. Special precautions for user

ADR-Subsidiary hazards:	-
ADR-S.P.:	IB2, T4, TP1
ADR-Transport category (Tunnel restriction code):	2
IATA-Passenger Aircraft:	353
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	364
IATA-S.P.:	-
IATA-ERG:	3L
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category B
IMDG-Segregation:	-

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
Restrictions related to the product:
Restriction 3
Restriction 40
Restrictions related to the substances contained:
Restriction 75

Listed or in compliance with the following international inventories:

Labelling of detergents (EC Regulations 648/2004 and 907/2006):
N.A.

Labelling of biocides (Regulations 1896/2000, 1687/2002, 2032/2003, 1048/2005, 1849/2006, 1451/2007 and Directive 98/8/EC):
N.A.

N.A.

Where applicable, refer to the following regulatory provisions :
Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.
1999/13/EC (VOC directive)
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
Product belongs to category: P5c

15.2. Chemical safety assessment
No

SECTION 16: Other information

N.A.: Not Applicable or Not Available

Full text of phrases referred to in Section 3:
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

Hazard class and hazard category	Code	Description

Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	**Classification procedure**
Flam. Liq. 2, H225	On basis of test data
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold
CCNL - Appendix 1
Insert further consulted bibliography

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.

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IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
STOT SE:	May cause drowsiness or dizziness
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.