



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) 2015/830)

Rubcol B

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

1.1. Product identifier

Product name Rubcol B

Product code None.

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

Use of the Substance/Mixture Curing chemical

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification Habasit GmbH (Deutschland), Only Representative
Babenhäuser Str. 31
D-64859 Eppertshausen
+49 6071 969 0 (Mo - Fr, 7.30h - 17h)

SDS info: product.safety@habasit.com

National contact:
Habasit (UK) Limited
Habegger house
Gannex Park,
Dewsbury Road,
Elland,
West Yorkshire
HX5 9AF
Tel. +44 (0) 333 207 6570 (Mo - Fr, 8h - 17.30h)
E-Mail: info.uk@habasit.com

1.4. Emergency telephone number NHS Direct in England or Wales: +44 (0)845 46 47
NHS 24 in Scotland (UK only): 08454 24 24 24
Poisons Information Centre of Ireland: 01 809 2566

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Version 03 (Previous versions: 02)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Skin corrosion/irritation, Cat. 2, H315
Serious eye damage/eye irritation, Cat. 2, H319
Carcinogenicity, Cat. 2, H351
Specific target organ toxicity (single exposure, inhalation), Cat. 3, H335
Specific target organ toxicity (repeated exposure), Cat. 2, H373
Respiratory Sensitisation, Cat. 1, H334
Skin Sensitisation, Cat. 1, H317
Specific target organ toxicity (single exposure, narcotic effects), Cat. 3, H336
Flammable liquids, Cat. 2, H225

Additional information

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

2.2. Label elements



Signal Word

Danger

Hazard Statements

H225: Highly flammable liquid and vapour.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H351: Suspected of causing cancer.
H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P210b: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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 person to fresh air and keep comfortable for breathing.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P333+P313: If skin irritation or rash occurs: Get medical advice/ attention.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Supplemental information

EUH066: Repeated exposure may cause skin dryness or cracking.

EUH204: Contains isocyanates. May produce an allergic reaction.

Product identifier ethyl acetate, CAS-No. 141-78-6, EC-No. 205-500-4, REACH No. 01-2119475103-46-XXXX
4-Isocyanatosulphonyltoluene; Tosyl isocyanate, CAS-No. 4083-64-1, EC-No. 223-810-8
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate, CAS-No. 101-68-8, EC-No. 202-966-0, REACH No. 01-2119457014-47-XXXX

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Contains isocyanates. See information supplied by the manufacturer.

Components		CLP Classification	Product identifier
ethyl acetate	50% - 75%	Eye Irrit. 2 H319, STOT SE 3 H336, Flam. Liq. 2 H225, EUH066	CAS-No.: 141-78-6 EC-No.: 205-500-4 Index-No: 607-022-00-5 REACH No.: 01-2119475103-46-XXXX
4-Isocyanatosulphonyltoluene; Tosyl isocyanate	0.5% - 1%	Eye Irrit. 2 H319, STOT SE 3 H335, Skin Irrit. 2 H315, Resp. Sens. 1 H334, EUH014 [CEy2: C ≥ 5 % SSEIn3: C ≥ 5 % CSk2: C ≥ 5 %]	CAS-No.: 4083-64-1 EC-No.: 223-810-8 Index-No: 615-012-00-7
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	20% - 30%	Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, STOT SE 3 H335, Skin Irrit. 2 H315, Resp. Sens. 1 H334, Skin Sens. 1 H317 [CEy2: C ≥ 5 % CSk2: C ≥ 5 % SensIn1: C ≥ 0,1 % SSEIn3: C ≥ 5 %]	CAS-No.: 101-68-8 EC-No.: 202-966-0 Index-No: 615-005-00-9 REACH No.: 01-2119457014-47-XXXX

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

Hazardous impurities None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move to fresh air. Consult a physician after significant exposure.

Skin contact Wash off immediately with soap and plenty of water. Remove contaminated clothing and shoes.

Eye contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed Dizziness. Dizziness. Causes headache, drowsiness or other effects to the central nervous system.

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 Use water spray, alcohol-resistant foam, dry extinguishing agent or carbon dioxide.

Extinguishing media which must not be used for safety reasons High volume water jet.

5.2. Special hazards arising from the substance or mixture During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Isocyanates.

5.3. Advice for firefighters

Special protective equipment for firefighters In the event of fire, wear self-contained breathing apparatus.

Specific methods Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Remove all sources of ignition.

Advice for emergency responders Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Vapours are heavier than air and may spread along floors.

6.2. Environmental precautions Prevent product from entering surface water or sewage.

6.3. Methods and material for containment and cleaning up Clean contaminated surface thoroughly. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

6.4. Reference to other sections See chapter 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep away from sources of ignition - No smoking. Wear personal protective equipment. Vapours are heavier than air and may spread along floors. Provide appropriate exhaust ventilation at machinery. Do not breathe vapours/dust. Wash hands and exposed skin before eating, drinking or smoking and after work. Remove contaminated clothing and shoes.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store together with food.

7.3. Specific end use(s)

Use only in accordance with our recommendations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)

Even in case of a full release, due to the small amount of substances present, it is not expected that exposure limits will be reached.
However it is the duty of the user to verify this and follow given exposure limits at the workplace.
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

ethyl acetate (CAS 141-78-6)

Ireland - Occupational Exposure Limits - TWAs

734 mg/m³ TWA
200 ppm TWA

Ireland - Occupational Exposure Limits - STELs

1468 mg/m³ STEL
400 ppm STEL

United Kingdom - Workplace Exposure Limits (WELs) - STELs

1468 mg/m³ STEL
400 ppm STEL

United Kingdom - Workplace Exposure Limits (WELs) - TWAs

734 mg/m³ TWA
200 ppm TWA

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (CAS 101-68-8)

Ireland - Occupational Exposure Limits - TWAs

0.005 ppm TWA (as NCO)

Ireland - Occupational Exposure Limits - STELs

0.015 ppm STEL (calculated, as NCO)

Ireland - Occupational Exposure Limits - TWAs

0.02 mg/m³ TWA (all, except Methyl isocyanate and 2,4-Toluene diisocyanate or 2,6-Toluene diisocyanate)

Ireland - Occupational Exposure Limits - STELs

0.07 mg/m³ STEL (all, except Methyl isocyanate and 2,4-Toluene diisocyanate or 2,6-Toluene diisocyanate)

United Kingdom - Workplace Exposure Limits (WELs) - STELs

0.07 mg/m³ STEL (except Methyl isocyanate, as NCO)

United Kingdom - Workplace Exposure Limits (WELs) - TWAs

0.02 mg/m³ TWA (except Methyl isocyanate, as NCO)

United Kingdom - Workplace Exposure Limits (WELs) - Sensitizers

Capable of causing occupational asthma

8.2. Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice.

Personal protection equipment

Respiratory protection In case of good ventilation no personal respiratory protective equipment required. In case of insufficient ventilation wear suitable respiratory equipment. Suitable respiratory equipment: ABEK-filter ABEK-P3-filter Respirator with filter for organic vapour

Hand protection Protective gloves complying with EN 374. Gloves made of Nitril. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). The exact break through time can be obtained from the protective glove producer and this has to be observed. Do not wear leather gloves. Do not wear cotton gloves.

Eye protection Safety glasses with side-shields conforming to EN166.

Skin and body protection Long sleeved clothing.

Thermal hazards No special measures required.

Environmental exposure controls Dispose of waste product or used containers according to local regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Amber.
Odour	Characteristic.
Odour Threshold	Not determined.
pH:	Not determined.
Melting point/range:	Not determined.
Boiling point/range:	>70°C
Flash point:	-4°C
Evaporation Rate:	Not determined.
Flammability:	Not determined.
Explosion limits:	Not determined.
Vapour pressure:	Not determined.
Vapor density:	Not determined.
Relative density:	0.95 g/ml (20°C)
Water solubility:	Decomposes in contact with water.
Partition coefficient (n-octanol/water):	Not determined.
Autoignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	Not determined.
Explosive properties:	not hazardous
Oxidising properties:	None

9.2. Other information

General Product Characteristics No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	No hazards to be specially mentioned.
10.2. Chemical stability	Stable up to approximately 80 °C.
10.3. Possibility of hazardous reactions	No hazards to be specially mentioned.
10.4. Conditions to avoid	Heat, flames and sparks.
10.5. Incompatible materials	None.
10.6. Hazardous decomposition products	None reasonably foreseeable.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	No data is available on the product itself. ethyl acetate (CAS 141-78-6) Dermal LD50 Rabbit > 18000 mg/kg (JAPAN_GHS) Inhalation LC50 Rat = 4000 ppm 4 h(HSDB) Oral LD50 Rat = 5620 mg/kg (NLM_CIP) 4-Isocyanatosulphonyltoluene; Tosyl isocyanate (CAS 4083-64-1) Inhalation LC50 Rat > 640 ppm 1 h(NLM_CIP) Oral LD50 Rat = 2234 mg/kg (NLM_CIP) 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (CAS 101-68-8) Inhalation LC50 Rat = 369 mg/m ³ 4 h(NZ_CCID) Oral LD50 Rat = 31600 mg/kg (JAPAN_GHS)
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes eye irritation.
Respiratory / Skin Sensitisation	May cause allergic skin reaction. Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition.
Carcinogenicity	Suspected of causing cancer.
Germ cell mutagenicity	Contains no ingredient listed as a mutagen.
Reproductive toxicity	Contains no ingredient listed as toxic to reproduction.

Specific target organ toxicity (single exposure)	Narcotic effects
Specific target organ toxicity (repeated exposure)	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	no data available
Human experience	no data available
Information on likely routes of exposure	Inhalation. Skin contact.
Symptoms related to the physical, chemical and toxicological characteristics	Vertigo Drowsiness Causes headache, drowsiness or other effects to the central nervous system.
Delayed and immediate effects and also chronic effects from short and long term exposure	Tiredness

SECTION 12: Ecological information

12.1. Toxicity	No data is available on the product itself.
ethyl acetate (CAS 141-78-6) Ecotoxicity - Freshwater Fish - Acute Toxicity Data	LC50 96 h Pimephales promelas 220 - 250 mg/L [flow-through] (EPA) LC50 96 h Oncorhynchus mykiss 484 mg/L [flow-through] (IUCLID) LC50 96 h Oncorhynchus mykiss 352 - 500 mg/L [semi-static] (EPA)
Ecotoxicity - Water Flea - Acute Toxicity Data	EC50 48 h Daphnia magna 560 mg/L [Static] (EPA)
12.2. Persistence and degradability	Partly biodegradable.
12.3. Bioaccumulative potential	No data is available on the product itself. Does not bioaccumulate.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).
12.6. Other adverse effects	no data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	Dispose of as hazardous waste in compliance with local and national regulations. Can be incinerated, when in compliance with local regulations. 080501 - waste isocyanates
Contaminated packaging	Dispose of as unused product.

SECTION 14: Transport information

ADR/RID	UN 1993. Proper shipping name: FLAMMABLE LIQUID, N.O.S. (ethyl acetate). Class 3. Packing group II. ADR/RID-Labels 3. Classification code F1. Hazard identification no. 33. Limited quantity 1 L. Excepted quantity E2. Tunnel restriction code D/E
IMDG	UN 1993. Proper shipping name: FLAMMABLE LIQUID, N.O.S. (ethyl acetate). Class 3. Packing group II. IMDG-Labels 3. Limited quantity 1 L. Excepted quantity E2. EmS F-E, S-E. Marine pollutant: No.
IATA	UN 1993. Proper shipping name: Flammable liquid, n.o.s. (ethyl acetate). Class 3. Packing group II. IATA label 3. Packing instruction (passenger aircraft): 353 (5 L). Packing instruction (LQ): Y341 (1 L). Packing instruction (cargo aircraft): 364 (60 L).
Inland navigation ADN	UN 1993. Proper shipping name: FLAMMABLE LIQUID, N.O.S. (ethyl acetate). Class 3. Packing group II. ADN labels 3. Classification code F1. Limited quantity 1 L. Excepted quantity E2.
Further Information	None.

SECTION 15: Regulatory information

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

Regulatory Information Contains isocyanates. See information supplied by the manufacturer.

ethyl acetate (CAS 141-78-6)

EU - REACH (1907/2006) - List of Registered Substances Present

EU - REACH (1907/2006) - List of Registered Intermediates Present ([205-500-4])

4-Isocyanatosulphonyltoluene; Tosyl isocyanate (CAS 4083-64-1)

EU - REACH (1907/2006) - List of Registered Substances Present

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (CAS 101-68-8)

EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances Use restricted. See item 56[a]. (Conditions of restrictions 27 December 2010)

EU - REACH (1907/2006) - List of Registered Substances Present

EU - REACH (1907/2006) - List of Registered Intermediates Present ([202-966-0])

15.2. Chemical safety assessment Not required.

SECTION 16: Other information

Revision Note This data sheet contains changes from the previous version in section(s): 14

Key or legend to abbreviations and acronyms CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)
DSD/DPD: Classification according to EU Directives 67/548/EEC or 1999/45/EC
MAK: Occupational exposure limit.

Key literature references and sources for data Information taken from reference works and the literature.

Classification procedure Classification according to Regulation (EC) No. 1272/2008.
Classification according to Regulation (EC) 1272/2008 with the correlation table 67/548/EEC or 1999/45/EC (Annex VII of CLP).

Full text of phrases referred to under sections 2 and 3 H225: Highly flammable liquid and vapour.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H351: Suspected of causing cancer.

H373: May cause damage to organs through prolonged or repeated exposure.

Training advice

The rules which cover amongst other things the requirement for ventilation, protective clothing, personal protective equipment etc. can be obtained from the National Occupational Health and Safety Board.

Further information

Made in: Switzerland Habasit AG
Römerstrasse 1
4153 Reinach/BL, Switzerland
Phone: +41 (0)61 715 15 15 (Mo - Fr, 7.30h - 17h)
SDS info: product.safety@habasit.com

Instructions for use

For industrial application only. Use only in accordance with our recommendations.

Disclaimer

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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.