



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by
Commission Regulation (EU) 2020/878 - Germany

SAFETY DATA SHEET

32335

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

1.1 Product identifier

Product name : 32335
UFI : KVVU0-R0QR-R00F-3D6R
Product code : 1674241, 1674241-V09, 1674241-K09, 1674241-K19,
1674241-F59, 1674241-B09
Product description : Not available.
Product type : liquid
Other means of identification : 32335

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

Identified uses

Not applicable.

Uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

RUCOINX Druckfarben
A. M. Ramp & Co. GmbH
Lorsbacher Str. 28
Eppstein
Germany
D-65817
+49.6198.304 0
8:00-16:00 (working hours)

e-mail address of person responsible for this SDS : info.de@inx europe.com

National contact

Not available.

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number :

Supplier

Telephone number : +49.6198.304 0
Hours of operation : 8:00-16:00 (working hours)
Information limitations : Not available.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 2, H225
Skin Irrit. 2, H315
Eye Irrit. 2, H319
STOT SE 3, H335 (Respiratory tract irritation)
STOT SE 3, H336 (Narcotic effects)
STOT RE 2, H373
Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word :

Danger

Hazard statements :

Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
Harmful to aquatic life with long lasting effects.

Precautionary statements

General :

Read carefully and follow all instructions. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention :

Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Wash thoroughly after handling.

Response :

Get medical advice or attention if you feel unwell. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF IN EYES:

		Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	:	Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
<u>Special packaging requirements</u>		
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Yes, applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
ethyl acetate	REACH#: 01-2119475103-46-0034 EC : 205-500-4 CAS : 141-78-6 Index: 607-022-00-5	>= 25 - <= 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 (Narcotic effects) EUH066	-	[1] [2]
Reaction mass of ethylbenzene and xylene	REACH#: 01-2119488216-32-xxxx EC : 905-588-0	>= 25 - <= 50	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Dermal] = 1 100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]

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			STOT SE 3, H335 (Respiratory tract irritation) STOT SE 3, H336 (Narcotic effects) STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412		
cyclohexanone	REACH#: 01-2119453616-35-XXXX EC : 203-631-1 CAS : 108-94-1 Index: 606-010-00-7	>= 10 - <= 25	Flam. Liq. 3, H226 Acute Tox. 4, H332	ATE [Inhalation (gases)] = 8 000 ppm	[1] [2]
n-butyl acetate	REACH#: 01-2119485493-29-XXXX EC : 204-658-1 CAS : 123-86-4 Index: 607-025-00-1	> 0 - <= 10	Flam. Liq. 3, H226 STOT SE 3, H336 (Narcotic effects) EUH066	-	[1] [2]

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

Substance classified with a health or environmental hazard

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth

	resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation, watering, redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation, coughing, nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation, redness
Ingestion	: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing	: Do not use water jet.

media

5.2 Special hazards arising from the substance or mixture

- | | | |
|--|---|--|
| Hazards from the substance or mixture | : | Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous combustion products | : | Decomposition products may include the following materials: carbon dioxide, carbon monoxide |

5.3 Advice for firefighters

- | | | |
|---|---|---|
| Special protective actions for fire-fighters | : | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| Special protective equipment for fire-fighters | : | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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|------------------------------------|---|--|
| For non-emergency personnel | : | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For emergency responders | : | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |

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|--------------------------------------|---|--|
| 6.2 Environmental precautions | : | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. |
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6.3 Methods and materials for containment and cleaning up

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- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
 See Section 8 for information on appropriate personal protective equipment.
 See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible

materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5 000 kg	50 000 kg

7.3 Specific end use(s)

Recommendations : Not available.
Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
ethyl acetate	DFG MAC-values list (2016-07-08). [Ethyl acetate] There is no reason to fear a risk of damage to the embryo or foetus when MAK and BAT values are observed.. PEAK 15 minutes: 1 500 mg/m ³ 400 ppm, 4 [Interval: 1 hour] TWA 8 hours: 750 mg/m ³ 200 ppm TRGS 900 OEL (2016-11-01). PEAK 15 minutes: 1 460 mg/m ³ 400 ppm TWA 8 hours: 730 mg/m ³ 200 ppm EU OEL (2017-02-21). [Ethyl acetate] TWA 8 hours: 734 mg/m ³ 200 ppm STEL 15 minutes: 1 468 mg/m ³ 400 ppm
cyclohexanone	DFG MAC-values list (2006-07-01). [Cyclohexanone] Substances that cause concern that they could be carcinogenic for man but cannot be assessed conclusively because of lack of data. Substances for which in vitro or animal studies have yielded evidence of carcinogenic effects that is not sufficient for classification of the substance in one of the other categories.. Absorbed through skin. TRGS 900 OEL (2006-01-01). Absorbed through skin. PEAK 15 minutes: 80 mg/m ³ 20 ppm

	TWA 8 hours: 80 mg/m ³ 20 ppm EU OEL (2000-06-01). [cyclohexanone] Absorbed through skin. STEL 15 minutes: 81,6 mg/m ³ 20 ppm TWA 8 hours: 40,8 mg/m ³ 10 ppm
n-butyl acetate	DFG MAC-values list (2002-07-01). [n-Butyl acetate] There is no reason to fear a risk of damage to the embryo or foetus when MAK and BAT values are observed.. PEAK 15 minutes: 960 mg/m ³ 200 ppm, 4 [Interval: 1 hour] TWA 8 hours: 480 mg/m ³ 100 ppm TRGS 900 OEL (2012-07-01). PEAK 15 minutes: 600 mg/m ³ 124 ppm TWA 8 hours: 300 mg/m ³ 62 ppm EU OEL (2019-11-20). [n-butyl acetate] TWA 8 hours: 241 mg/m ³ 50 ppm STEL 15 minutes: 723 mg/m ³ 150 ppm

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

- : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Result
ethyl acetate	DNEL - General population - Long term - Oral 4,5 mg/kg bw/day <u>Effects:</u> Systemic DNEL - Workers - Long term - Inhalation 734 mg/m ³ <u>Effects:</u> Systemic DNEL - Workers - Short term - Inhalation 1468 mg/m ³ <u>Effects:</u> Systemic DNEL - Workers - Long term - Inhalation 734 mg/m ³ <u>Effects:</u> Local

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	DNEL - Workers - Short term - Inhalation 1468 mg/m³ <u>Effects:</u> Local DNEL - Workers - Long term - Dermal 63 mg/kg bw/day <u>Effects:</u> Systemic DNEL - General population - Long term - Inhalation 367 mg/m³ <u>Effects:</u> Systemic DNEL - General population - Short term - Inhalation 734 mg/m³ <u>Effects:</u> Systemic DNEL - General population - Long term - Inhalation 367 mg/m³ <u>Effects:</u> Local DNEL - General population - Short term - Inhalation 734 mg/m³ <u>Effects:</u> Local DNEL - General population - Long term - Dermal 37 mg/kg bw/day <u>Effects:</u> Systemic
cyclohexanone	DNEL - General population - Short term - Oral 1,5 mg/kg bw/day <u>Effects:</u> Systemic DNEL - Workers - Long term - Inhalation 10 mg/m³ <u>Effects:</u> Systemic DNEL - Workers - Short term - Inhalation 20 mg/m³ <u>Effects:</u> Systemic DNEL - Workers - Long term - Inhalation 10 mg/m³ <u>Effects:</u> Local DNEL - Workers - Short term - Inhalation 20 mg/m³ <u>Effects:</u> Local DNEL - Workers - Long term - Dermal 4 mg/kg bw/day <u>Effects:</u> Systemic DNEL - Workers - Short term - Dermal 4 mg/kg bw/day <u>Effects:</u> Systemic

	DNEL - General population - Long term - Inhalation 2,55 mg/m³ <u>Effects:</u> Systemic DNEL - General population - Short term - Inhalation 5 mg/m³ <u>Effects:</u> Systemic DNEL - General population - Long term - Dermal 1 mg/kg bw/day <u>Effects:</u> Systemic DNEL - General population - Short term - Dermal 1 mg/kg bw/day <u>Effects:</u> Systemic DNEL - General population - Long term - Oral 1,5 mg/kg bw/day <u>Effects:</u> Systemic
n-butyl acetate	DNEL - General population - Long term - Oral 2 mg/kg bw/day <u>Effects:</u> Systemic DNEL - Workers - Short term - Inhalation 600 mg/m³ <u>Effects:</u> Systemic DNEL - Workers - Long term - Inhalation 300 mg/m³ <u>Effects:</u> Local DNEL - Workers - Short term - Inhalation 600 mg/m³ <u>Effects:</u> Local DNEL - Workers - Short term - Dermal 11 mg/kg bw/day <u>Effects:</u> Systemic DNEL - General population - Short term - Inhalation 300 mg/m³ <u>Effects:</u> Systemic DNEL - General population - Long term - Inhalation 35,7 mg/m³ <u>Effects:</u> Local DNEL - General population - Short term - Inhalation 300 mg/m³ <u>Effects:</u> Local DNEL - General population - Short term - Dermal 6 mg/kg bw/day <u>Effects:</u> Systemic

	DNEL - General population - Short term - Oral 2 mg/kg bw/day <u>Effects:</u> Systemic DNEL - Workers - Long term - Inhalation 48 mg/m³ <u>Effects:</u> Systemic DNEL - Workers - Long term - Dermal 7 mg/kg bw/day <u>Effects:</u> Systemic DNEL - General population - Long term - Inhalation 12 mg/m³ <u>Effects:</u> Systemic DNEL - General population - Long term - Dermal 3,4 mg/kg bw/day <u>Effects:</u> Systemic
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PNECs

Not available.

8.2 Exposure controls

Appropriate engineering controls

- : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection

- : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still

	retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: liquid
Color	: Colorless.
Odor	: Not available.
Odor threshold	: Not available.
Melting point/freezing point	: Not available.
Boiling point or initial boiling point and boiling range	: Not available.
Flammability	: Not available.
Lower and upper explosion limit	: Lower: Not available. Upper: Not available.
Flash point	: < 23 °C (< 73 °F) Closed cup: -4 °C (25 °F)

Auto-ignition temperature :

Ingredient name	Auto-ignition temperature
n-butyl acetate	415 °C (779 °F) (EU A.15)
cyclohexanone	420 °C (788 °F)
ethyl acetate	426,67 °C (800,01 °F)

Decomposition temperature :

Not available.

pH :

Product is non-polar/aprotic.

Viscosity :

Dynamic Not available.

:

Kinematic 1,2 mm²/s

:

Solubility :

Not available.

Solubility in water :

Not available.

Partition coefficient n-octanol/water (log Pow) :

Not applicable.

Vapor pressure :

Ingredient name	Vapor pressure
ethyl acetate	108,78 hPa (@ 22,02 °C) (71,64 °F)
n-butyl acetate	15 hPa (@ 20 °C) (68 °F) (DIN EN 13016-2)
cyclohexanone	5 hPa (@ 20 °C) (68 °F)

Relative density :

0,94

Relative vapor density :

Not available.

Particle characteristics

Median particle size :

Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties :

Not available.

Oxidizing properties :

Not available.

9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- 10.5 Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Product/ingredient name	Result
ethyl acetate	Rat - Oral - LD50 5 620 mg/kg
cyclohexanone	Rat - Oral - LD50 1 800 mg/kg Rat - Inhalation - LC50 Gas. 8000 ppm [4 h]
n-butyl acetate	Rat - Oral - LD50 10 768 mg/kg Rabbit - Dermal - LD50 17 600 mg/kg

Conclusion/Summary[Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
32335	N/A	2750 mg/kg	53333,3 ppm	27,5 mg/l	N/A

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ethyl acetate	5620 mg/kg	N/A	N/A	N/A	N/A
Reaction mass of ethylbenzene and xylene	N/A	1100 mg/kg	N/A	11 mg/l	N/A
cyclohexanone	N/A	N/A	8000 ppm	N/A	N/A
n-butyl acetate	10768 mg/kg	17600 mg/kg	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name	Result
cyclohexanone	Human - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 48 hrs Rabbit - Skin - Mild irritant
n-butyl acetate	Rabbit - Skin - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hrs

Conclusion/Summary[Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name	Result
cyclohexanone	Rabbit - Eyes - Severe irritant <u>Duration of treatment/exposure:</u> 24 hrs Rabbit - Eyes - Severe irritant
n-butyl acetate	Rabbit - Eyes - Moderate irritant

Conclusion/Summary[Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary[Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary[Product] : Not available.

Respiratory

Conclusion/Summary[Product] : Not available.

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Germ cell mutagenicity

Not available.

Conclusion/Summary : Not available.
[Product]

Carcinogenicity

Not available.

Conclusion/Summary : Not available.
[Product]

Reproductive toxicity

Not available.

Conclusion/Summary : Not available.
[Product]

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
ethyl acetate	STOT SE 3, H336 (Narcotic effects)
Reaction mass of ethylbenzene and xylene	STOT SE 3, H335 (Respiratory tract irritation) STOT SE 3, H336 (Narcotic effects)
n-butyl acetate	STOT SE 3, H336 (Narcotic effects)

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene	STOT RE 2, H373

Aspiration hazard

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.
Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory

	:	irritation.
Skin contact	:	Causes skin irritation.
Ingestion	:	Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	Adverse symptoms may include the following: pain or irritation, watering, redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation, coughing, nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness
Skin contact	:	Adverse symptoms may include the following: irritation, redness
Ingestion	:	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

Long term exposure

Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

Potential chronic health effects

Not available.

	:	Not available.
Conclusion/Summary[Product]		

General	:	May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.

11.2. Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

	:	The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.
Conclusion/Summary[Product]		

11.2.2 Other information	:	No known significant effects or critical hazards.
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SECTION 12: Ecological information

12.1 Toxicity

Not available.

: Not available.

Conclusion/Summary[Product]

12.2 Persistence and degradability

Not available.

: Not available.

Conclusion/Summary[Product]

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethyl acetate	0,68	30,00	Low
cyclohexanone	0,86	-	Low
n-butyl acetate	2,3	-	Low

12.4 Mobility in soil

Soil/Water partition coefficient

Product/ingredient name	logKoc	Koc
ethyl acetate	1,3	18,174
cyclohexanone	1,8	63,287
n-butyl acetate	1,5	33,214

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
ethyl acetate	No	No	No	No	No	No	No
Reaction mass of ethylbenzene and xylene	No	No	No	No	No	No	No
cyclohexanone	No	No	No	No	No	No	No
n-butyl acetate	No	No	No	No	No	No	No

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
ethyl acetate	No	N/A	No	No	No	N/A	No

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Reaction mass of ethylbenzene and xylene	N/A	N/A	N/A	Yes	N/A	N/A	N/A
cyclohexanone	No	N/A	N/A	No	N/A	N/A	N/A
n-butyl acetate	No	N/A	N/A	No	N/A	N/A	N/A

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
ethyl acetate	No	No	No	No	No	No	No
Reaction mass of ethylbenzene and xylene	No	No	No	No	No	No	No
cyclohexanone	No	No	No	No	No	No	No
n-butyl acetate	No	No	No	No	No	No	No

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary[Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal

- Hazardous waste** : contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
: The classification of the product may meet the criteria for a hazardous waste.

Packaging

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

Regulation: ADR/RID	
14.1 UN number	UN1210
14.2 UN proper shipping name	Printing ink related material
14.3 Transport hazard class(es)	3 
14.4 Packing group	II
14.5 Environmental hazards	No.
Additional information	Special provisions 640C Tunnel code (D/E)

Regulation: ADN	
14.1 UN number	UN1210
14.2 UN proper shipping name	Printing ink related material
14.3 Transport hazard class(es)	3 
14.4 Packing group	II

14.5 Environmental hazards	Yes.
Additional information	The product is only regulated as an environmentally hazardous substance when transported in tank vessels. Special provisions 640C

Regulation: IMDG	
14.1 UN number	UN1210
14.2 UN proper shipping name	Printing ink related material
14.3 Transport hazard class(es)	3 
14.4 Packing group	II
14.5 Environmental hazards	No.
Additional information	

Regulation: IATA	
14.1 UN number	UN1210
14.2 UN proper shipping name	Printing ink related material
14.3 Transport hazard class(es)	3 
14.4 Packing group	II
14.5 Environmental hazards	No.
Additional information	

14.6 Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

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Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed above the relevant limit.

Substances of very high concern

None of the components are listed above the relevant limit.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
32335	100	3

No listed substance

Other EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) - Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

None of the components are listed.

Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

Persistent Organic Pollutants

None of the components are listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c

National regulations

Biocidal products regulation : Not applicable.

Storage class (TRGS 510) : 3

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
P5c	1.2.5.3

Hazard class for water : WGK 2

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5.2.5	Organic substances	100 %
5.2.5 [I]	Organic substances	60 %

AOX : Not available.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Chemical Weapons Convention List Schedule I Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule II Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule III Chemicals

None of the components are listed.

Montreal Protocol

None of the components are listed.

Stockholm Convention on Persistent Organic Pollutants

Annex A - Elimination - Production

None of the components are listed.

Annex A - Elimination - Use

None of the components are listed.

Annex B - Restriction - Production

None of the components are listed.

Annex B - Restriction - Use

None of the components are listed.

Annex C - Unintentional - Production

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC)

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Rotterdam Convention on Prior Informed Consent (PIC) - Industrial

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Severely hazardous pesticide

None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Heavy metals - Annex 1

None of the components are listed.

POPs - Annex 1 - Production

None of the components are listed.

POPs - Annex 1 - Use

None of the components are listed.

POPs - Annex 2

None of the components are listed.

POPs - Annex 3

None of the components are listed.

Inventory list

Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Eurasian Economic Union	:	Russian Federation inventory: Not determined.
Japan	:	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	Not determined.
Viet Nam	:	Not determined.

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International

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Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
B = Bioaccumulative
BCF = Bioconcentration Factor
CLP = Classification, Labelling and Packaging Regulation
[Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
M = Mobile
N/A = Not available
P = Persistent
PBT = Persistent, Bioaccumulative and Toxic
PMT = Persistent, Mobile and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage
of Dangerous Goods by Rail
RRN = REACH Registration Number
SGG = Segregation Group
T = Toxic
vB = Very Bioaccumulative
vM = Very Mobile
vP = Very Persistent
vPvB = Very Persistent and Very Bioaccumulative
vPvM = Very Persistent and Very Mobile

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008
[CLP/GHS]**

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H335 (Respiratory tract irritation)	Calculation method
STOT SE 3, H336 (Narcotic effects)	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

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