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

- 1.1 **Product identifier**
Trade Name: Kipp 2K-PUR Kunstrasenfarbe, Komponente B lösemittelhaltig
Article No.: n.av.
Preparation No.: 36 / 15
Registration No.: n.av.
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**
 Use: Colour
- 1.3 **Details of the supplier of the safety data sheet**
- 1.3.1 **Address of the Company / Supplier:**
 Kipp GmbH, Murrstraße 1, D- 70806 Kornwestheim
 Telephone: +49 - 7154-82420, Telefax: +49 - 7154-824210, E-Mail: info@kipp-line.de
- 1.4 **Emergency telephone number**
 Emergency - Telephone of Company / Undertaking Information Centre Specialising in Symptoms of Poisoning
 Telephone: +49 - 7154-82420 (8:00 – 16:30) Telephone: +44 870 600 6266

SECTION 2: Hazards identification

- 2.1 **Classification of the substance or mixture**
Classification and labelling according to Directive 1272/2008/EC:
 Flam. Liq. 3; H226 / STOT SE 3; H336 / Skin Sens. 1; H317 / STOT SE 3; H335
 - 2.2 **Label elements**
 Classification according to 1272/2008/EC: Yes.
 Applicable Exemptions: No.
 Signal word(s): Warning
 Component(s): contains:
 3-Isocyanatomethyl-3, 5, 5-trimethylcyclohexyl isocyanate,
 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate homopolymer,
 isocyanurate type
- Hazard pictogram(s):
-
- H - Phrases:**
 H226: Flammable liquid and vapour.
 H336: May cause drowsiness or dizziness.
 H317: May cause an allergic skin reaction.
 H335: May cause respiratory irritation.
- P - Phrases:**
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
 No smoking.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P271: Use only outdoors or in a well-ventilated area.
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P312: Call a POISON CENTER/doctor if you feel unwell.
 P501: Dispose of contents/container to hazardous or special waste collection point.
- Additional Markings:**
 EUH066: Repeated exposure may cause skin dryness or cracking.
 EUH204: Contains isocyanates. May produce an allergic reaction.
 The above mentioned labelling is valid for distribution to industrial user.
- 2.3 **Other hazards**
 Solvents may degrease the skin. In use, may form flammable/explosive vapour-air mixture.
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

SECTION 3: Composition/information on ingredients

- 3.1 **Substances**

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n.ap.

3.2 Mixtures

Chemical Characterisation:

Solvent mixture

Dangerous Ingredients:

Material			H - phrases	m% - range
CAS - No.	EC - No.	REACH - No.		
3-Isocyanatomethyl-3, 5, 5-trimethylcyclohexyl isocyanate			H331 / H319 / H335 / H315 / H334 / H317 / H411	0,1 - 1%
4098-71-9	n. av.	n. av.		
n-Butyl acetate			H226 / H336 / EUH066	30 - 40%
123-86-4	n. av.	01-2119485493-29-xxxx		
2-Methoxy-1-methylethyl acetate			H226	10 - 20%
108-65-6	n. av.	01-2119475791-29-xxxx		
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate homopolymer, isocyanurate type			H317 / H335	50 - 60%
53880-05-0	n. av.	n. av.		

Text of H - phrases: see section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

4.1.1 Inhalation:

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
If symptoms persist, call a physician.

4.1.2 Skin Contact:

Wash off immediately with soap and plenty of water.
In the case of skin irritation or allergic reactions see a physician.

4.1.3 Eye Contact:

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

4.1.4 Ingestion:

Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting.
Obtain medical attention. Show this safety data sheet to the doctor in attendance.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable Extinguishing Media:

Use dry chemical, CO₂, water spray or "alcohol" foam.

5.1.2 Extinguishing Media to Avoid:

None.

5.2 Special hazards arising from the substance or mixture

In the event of fire carbon oxides nitrogen oxides (NO_x) isocyanates hydrogen cyanide (hydrocyanic acid) may be formed.

5.3 Advice for firefighters

5.3.1 Special Protective Equipment:

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

5.3.2 Additional Information:

In the event of fire, cool tanks with water spray. 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

See chapter 8.2.2
Contaminated surfaces will be extremely slippery.

6.2 Environmental precautions

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- Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.
- 6.3 **Methods and material for containment and cleaning up**
 Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.
- 6.4 **Reference to other sections**
 None.

SECTION 7: Handling and storage

- 7.1 **Precautions for safe handling**
- 7.1.1 **Precautions for Safe Handling:**
 Do not breathe vapours or spray mist. Avoid contact with the skin and the eyes.
 When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.
 Wash hands before breaks and at the end of workday. Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.
- 7.1.2 **Precautions in Case of Fire and Explosion:**
 Keep away from sources of ignition - No smoking.
 Take measures to prevent the build up of electrostatic charge.
- 7.2 **Conditions for safe storage, including any incompatibilities**
- 7.2.1 **Storage Instructions:**
 Keep in an area equipped with solvent resistant flooring. Avoid subsoil penetration.
 Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.
 Ensure adequate ventilation. Vapours are heavier than air and may spread along floors.
- 7.2.2 **Store away from:**
 Do not store together with oxidizing agents.
- 7.2.3 **Further Information on Storage Conditions:**
 Keep away from direct sunlight.
- 7.3 **Specific end use(s)**
 n.av.

SECTION 8: Exposure controls/personal protection

- 8.1 **Control parameters**
- | Material | Limit Value |
|--|---|
| 3-Isocyanatomethyl-3, 5, 5-trimethylcyclohexyl isocyanate | 0,01 ppm 0,05 mg/m³ |
| 2-Methoxy-1-methylethyl acetate | 50 ppm 270 mg/m³, TWA: 50 ppm 275 mg/m³ |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate homopolymer, isocyanurate type | 0,1 ppm / 0,92 mg/m³ |
- 8.2 **Exposure controls**
- 8.2.1 **Appropriate engineering controls**
 Provide appropriate exhaust ventilation at machinery.
- 8.2.2 **Individual protection measures**
- 8.2.2a **Respiratory Protection:** In case of insufficient ventilation wear suitable respiratory equipment.
 Respirator with filter A2
- 8.2.2b **Hand Protection:** Protective gloves butyl-rubber (0,7 mm) break through time > 4h
 The data about break through time/strength of material are standard values!
 The exact break through time/strength of material has to be obtained from the producer of the protective glove.
 Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- 8.2.2c **Eye Protection:** Safety glasses
- 8.2.2d **Skin Protection:** Protective suit
- 8.2.2e **Further Information:** Observe wearing time limits:
- 8.2.3 **Environmental exposure controls:**
 n.av.

SECTION 9: Physical and chemical properties

- 9.1 **Information on basic physical and chemical properties**
- 9.1.1 **Form:** liquid **Colour:** colourless **Odour:** characteristic solvent
Odour threshold: n.av.
- 9.1.2 pH-value, undiluted: n.av.
 pH-value, 1% aqueous solution: n.av.

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9.1.3	Boiling point / Boiling - range (°C):	n.av.,	Melting point / Melting range (°C): n.av.
9.1.4	Flash point (°C):	Butylacetat: 25, closed cup	
9.1.5	Flammability (EEC A10/A13):	n.ap.	
9.1.6	Ignition temperature (°C):	n.av.	
9.1.7	Autoflammability (EEC A16):	n.ap.	
9.1.8	Oxidising properties:	n.av.	
9.1.9	Explosion hazard:	No.	
9.1.10	Explosion limits (Vol.%) lower:	BuAc: 1,2, upper: BuAc: 7,5	
9.1.11	Vapour pressure:	n.av.	
	Vapour density (Air = 1):	n.av.	
9.1.12	Density (g/ml):	0,9	
9.1.13	Solubility (in Water):	practically insoluble	
9.1.14	Partition coefficient, n-Octanol / Water:	n.av.	
9.1.15	Viscosity:	n.av.	
9.1.16	Solvent content (m %):	30 – 50	
9.1.17	Thermal decomposition (°C):	n.av.	
9.1.18	Evaporation rate:	n.av.	
9.2	Other information		
	n.av.		

SECTION 10: Stability and reactivity

- 10.1 **Reactivity**
None.
- 10.2 **Chemical stability**
Stable under normal conditions.
- 10.3 **Possibility of hazardous reactions**
No dangerous reaction known under conditions of normal use.
- 10.4 **Conditions to avoid**
Heat, flames and sparks. Extremes of temperature and direct sunlight.
- 10.5 **Incompatible materials**
Incompatible with oxidizing agents. amines alcohols acids and bases
- 10.6 **Hazardous decomposition products**
No decomposition if stored and applied as directed. To avoid thermal decomposition, do not overheat.

SECTION 11: Toxicological information

- 11.1 **Information on toxicological effects**
Acute Health Effects:

 - Inhalation: n.av.
 - Ingestion: n.av.
 - Skin Contact: n.av.
 - Skin corrosion / irritation: None.
 - Serious eye damage / irritation: None.
 - Respiratory or skin sensitisation: May cause an allergic skin reaction.
 - Germ cell mutagenicity: n.av.
 - Carcinogenicity: n.av.
 - Reproductive toxicity: n.av.
 - STOT-single exposure: May cause drowsiness or dizziness.
 - STOT-repeated exposure: n. av.
 - Aspiration hazard: n. av.

11.1.2 – Practical Experience

- 11.1.11 n.av.
- 11.1.12 **Practical Experience**
Observations relevant for classification:
Vapours may cause drowsiness and dizziness.
Further Observations:
Solvents may degrease the skin.
Classification of the preparation has been done by calculation in accordance with EEC directives.

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SECTION 12: Ecological information

- 12.1 **Toxicity**
We have no quantitative data concerning the ecological effects of this product.
- 12.2 **Persistence and degradability**
No data is available on the product itself.
- 12.3 **Bioaccumulative potential**
n.av.
- 12.4 **Mobility in soil**
n.av.
- 12.5 **Results of PBT and vPvB assessment**
n.av.
- 12.6 **Other adverse effects**
- 12.6.1 COD-Value, mg/g: n.av.
- 12.6.2 BOD5-Value, mg/g: n.av.
- 12.6.3 AOX-Remarks: n.av.
- 12.6.4 Significant Components: None.
- 12.6.5 Other adverse effects: None.

SECTION 13: Disposal considerations

- 13.1 **Waste treatment methods**
- 13.1.1 Recommendation: D 10 / R1
 n: Waste - Code - No.:

 The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

 In addition comply with the regional authorities.
- 13.2 **Contaminated Packaging**
- 13.2.1 Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.
- 13.2.2 Safe Handling: As described under Residues.




SECTION 14: Transport information

	ADR	IMDG	IATA
14.1 UN number			
	1263	1263	1263
14.2 UN proper shipping name			
	UN 1263 Paint	Paint	Paint
14.3 Transport hazard class(es)			
	3	3	3

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14.4	Packing group III	III	III
14.5	Environmental hazards	No.	
14.6	Special precautions for user Transport category: 3 Classification Code: F1 Hazard - No.: 30 LQ: 5 L	F-E, S-E	Packing Instructions (Passenger) 355 Packing Instructions (Cargo) 366
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		
	n.av.		

SECTION 15: Regulatory information

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**
n.av.
- 15.2 **Chemical safety assessment :**
A chemical safety assessment has not been carried out.

SECTION 16: Other information

Text of H phases mentioned in Section 3

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H331: Toxic 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.

H411: Toxic to aquatic life with long lasting effects.

This datasheet has been compiled in accordance with EU regulation 453/201.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.