

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830



Article No.: T01-1088HF  
Print date 08.06.2020  
Version 7.10

Revision date 23.05.2020

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

**1.1. Product identifier**

Article No. (manufacturer/supplier): T01-1088HF  
Trade name/designation

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

**Relevant identified uses:**

Printing ink/-lacquer

**1.3. Details of the supplier of the safety data sheet**

**supplier (manufacturer/importer/downstream user/distributor)**

A. M. Ramp & Co. GmbH

RUCO Druckfarben

Lorsbacher Str. 28

D-65817 Eppstein

Telephone: +49.61 98.30 40

Telefax: +49.61 98.3 22 88

**Dept. responsible for information:**

E-mail info@ruco-inks.com

**1.4. Emergency telephone number**

Emergency telephone number +49.61 98.30 40

Only available during office hours.

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3 / H226

Flammable liquids

Flammable liquid and vapour.

Skin Irrit. 2 / H315

skin corrosion/irritation

Causes skin irritation.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

Skin Sens. 1 / H317

Respiratory or skin sensitisation

May cause an allergic skin reaction.

STOT SE 3 / H336

Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.

Aquatic Chronic 3 / H412

Hazardous to the aquatic environment

Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



**Warning**

**Hazard statements**

H226

Flammable liquid and vapour.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H317

May cause an allergic skin reaction.

H336

May cause drowsiness or dizziness.

H412

Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280

Wear protective gloves and eye/face protection.

P370 + P378

In case of fire, use sand, extinguishing powder or alcohol resistant foam.

P403 + P233

Store in a well-ventilated place. Keep container tightly closed.

**Hazard components for labelling**

Bis(4,4'-glycidylphenoxy)-propane

2-ethoxy-1-methylethyl acetate

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Fatty acids, C14-18- and C16-18- unsaturated, maleated

**Supplemental Hazard information (EU)**  
not applicable

**2.3. Other hazards**

No information available.

**SECTION 3: Composition / information on ingredients**

**3.2. Mixtures**

**Description** Solvent containing pigment dispersion on resin basis

**Hazardous ingredients**

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

EC No. CAS No. INDEX No.	REACH No. Designation classification: // Remark	Wt %
259-370-9	01-2119475116-39-XXXX	
54839-24-6	2-ethoxy-1-methylethyl acetate	10 - 20
603-177-00-8	Flam. Liq. 3 H226 / STOT SE 3 H336	
216-823-5	01-2119456619-26-XXXX	
1675-54-3	Bis(4,4'-glycidylphenoxy)-propane	10 - 20
603-073-00-2	Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	
203-603-9	01-2119475791-29-XXXX	
108-65-6	2-methoxy-1-methylethyl acetate	5 - 10
607-195-00-7	STOT SE 3 H336 / Flam. Liq. 3 H226	
288-306-2	01-2119976378-19-XXXX	
85711-46-2	Fatty acids, C14-18- and C16-18- unsaturated, maleated	0,1 - 0,25
	Skin Irrit. 2 H315 / Skin Sens. 1 H317	

**Additional information**

Full text of classification: see section 16

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

**In case of inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media

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alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

**Unsuitable extinguishing media**

strong water jet

**5.2. Special hazards arising from the substance or mixture**

Inhaling hazardous decomposing products can cause serious health damage.

**5.3. Advice for firefighters**

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

**6.3. Methods and material for containment and cleaning up**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

**6.4. Reference to other sections**

Observe protective provisions (see section 7 and 8).

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advices on safe handling**

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

**Further information**

Vapours are heavier than air. Vapours form explosive mixtures with air.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 35 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**7.3. Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limit values**

2-methoxy-1-methylethyl acetate

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INDEX No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

WEL, TWA: 274 mg/m<sup>3</sup>; 50 ppm

WEL, STEL: 548 mg/m<sup>3</sup>; 100 ppm

Remark: (may be absorbed through the skin)

**Additional information**

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

**DNEL:**

2-ethoxy-1-methylethyl acetate

INDEX No. 603-177-00-8 / EC No. 259-370-9 / CAS No. 54839-24-6

DNEL long-term dermal (systemic), Workers: 103 mg/kg

DNEL acute inhalative (systemic), Workers: 608 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 302 mg/m<sup>3</sup>

2-methoxy-1-methylethyl acetate

INDEX No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

DNEL long-term dermal (systemic), Workers: 796 mg/kg

DNEL long-term inhalative (systemic), Workers: 275 mg/m<sup>3</sup>

**PNEC:**

2-ethoxy-1-methylethyl acetate

INDEX No. 603-177-00-8 / EC No. 259-370-9 / CAS No. 54839-24-6

PNEC aquatic, freshwater: 1,3 mg/l

PNEC aquatic, marine water: 0,13 mg/l

PNEC sediment, freshwater: 6,4 mg/kg

PNEC sediment, marine water: 0,64 mg/kg

PNEC, soil: 1,34 mg/kg

PNEC sewage treatment plant (STP): 62,5 mg/l

2-methoxy-1-methylethyl acetate

INDEX No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

PNEC aquatic, freshwater: 0,635 mg/l

PNEC aquatic, marine water: 0,064 mg/l

PNEC sediment, freshwater: 3,29 mg/kg

PNEC sediment, marine water: 0,329 mg/kg

PNEC, soil: 0,29 mg/kg

PNEC sewage treatment plant (STP): 100 mg/l

**8.2. Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

**Personal protection equipment**

**Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

**Hand protection**

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

**Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

**Body protection**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

**Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

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**Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Appearance:**

Physical state: Liquid  
Colour: refer to label

Odour: characteristic

Odour threshold: not determined

pH at 20 °C: not applicable

Melting point/freezing point: not determined

Initial boiling point and boiling range: 145 °C

Flash point: 45 °C

Method: DIN 53213-1 (08/2002: replaced by EN ISO 1523)

Evaporation rate: not determined

**flammability**

Burning time (s): not applicable

**Upper/lower flammability or explosive limits:**

Lower explosion limit: 1 Vol-%

Upper explosion limit: 10,8 Vol-%

Vapour pressure at 20 °C: 5 mbar

Vapour density: not determined

**Relative density:**

Density at 20 °C: 1,58 g/cm<sup>3</sup>

**Solubility(ies):**

Water solubility (g/L) at 20 °C: insoluble

Partition coefficient: n-octanol/water: see section 12

Ignition temperature in °C: 315 °C

Decomposition temperature: not applicable

Viscosity at 20 °C: > 90 s 4 mm

Method: DIN 53211

Explosive properties: not applicable

Oxidising properties: not applicable

**9.2. Other information**

Solid content (%): 75 Wt %

**solvent content:**

Organic solvents: 25 Wt %

Water: 0 Wt %

Solvent separation test (%): < 3 Wt % (ADR/RID)

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

**10.3. Possibility of hazardous reactions**

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

**10.4. Conditions to avoid**

Hazardous decomposition byproducts may form with exposure to high temperatures.

**10.5. Incompatible materials**

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not applicable

**10.6. Hazardous decomposition products**

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

**SECTION 11: Toxicological information**

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

**11.1. Information on toxicological effects**

**Acute toxicity**

2-ethoxy-1-methylethyl acetate  
oral, LD50, Rat: 5000 mg/kg  
dermal, LD50, Rabbit: 13,42 mg/kg  
inhalative (vapours), LC50, Rat: 6,99 mg/l (4 h)

2-methoxy-1-methylethyl acetate  
oral, LD50, Rat: > 5000 mg/kg  
dermal, LD50, Rabbit: > 5000 mg/kg  
inhalative (vapours), LC50, Rat: 23,5 mg/l (4 h)

**Skin corrosion/irritation; Serious eye damage/eye irritation**

Causes skin irritation.

Causes serious eye irritation.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Based on available data, the classification criteria are not met.

**STOT-single exposure; STOT-repeated exposure**

May cause drowsiness or dizziness.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Practical experience/human evidence**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

**Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**SECTION 12: Ecological information**

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

Do not allow to enter into surface water or drains.

**12.1. Toxicity**

2-ethoxy-1-methylethyl acetate  
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 140 mg/l (96 h)  
Daphnia toxicity, EC50, Daphnia magna: 110 mg/l (48 h)  
Algae toxicity, ErC50, green alga: > 100 mg/l (72 h)  
Bacterial toxicity:, EC10, Pseudomonas putida: 560 mg/l (16 h)

2-methoxy-1-methylethyl acetate  
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 134 mg/l (96 h)  
Daphnia toxicity, EC50, Daphnia magna: > 500 mg/l (48 h)  
Algae toxicity, ErC50, Selenastrum capricornutum: > 1000 mg/l (72 h)  
Bacterial toxicity:, EC10, Activated sludge: > 1000 (1 h)

**Long-term Ecotoxicity**



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Harmful to aquatic life with long lasting effects.

2-methoxy-1-methylethyl acetate

Fish toxicity, NOEC, *Oryzias latipes*: 47,5 mg/l (14 d)

Aquatic organisms: NOEC, *Daphnia magna*: 100 (21 d)

**12.2. Persistence and degradability**

2-methoxy-1-methylethyl acetate

, OECD 301D: 100 % (28 d)

2-methoxy-1-methylethyl acetate

aerobic, OECD 301 F: 76,4 mg/l (28 d)

**12.3. Bioaccumulative potential**

2-methoxy-1-methylethyl acetate

Partition coefficient: n-octanol/water: 1,2

**Bioconcentration factor (BCF)**

2-methoxy-1-methylethyl acetate

Bioconcentration factor (BCF): < 100

**12.4. Mobility in soil**

Toxicological data are not available.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product**

**Recommendation**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**List of proposed waste codes/waste designations in accordance with EWC**

080312\* waste ink containing dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package**

**Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: Transport information**

**14.1. UN number**

UN 1210

**14.2. UN proper shipping name**

Land transport (ADR/RID):

Printing ink

Sea transport (IMDG):

PRINTING INK

Air transport (ICAO-TI / IATA-DGR):

Printing ink

**14.3. Transport hazard class(es)**

Land transport (ADR/RID):

KEINE GÜTER DER KLASSE 3

in containers > 450 l: class 3, item 31c

Sea transport (IMDG)

3

for packages < 30 litres:

Transport in accordance with the provisions of paragraph 2.3.2.5 of the IMDG Code.

Air transport (ICAO-TI / IATA-DGR)

3

**14.4. Packing group**

III

**14.5. Environmental hazards**

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

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**14.6. Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

**Further information**

**Land transport (ADR/RID)**

tunnel restriction code D/E

**Sea transport (IMDG)**

EmS-No. F-E, S-D

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**SECTION 15: Regulatory information**

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

**EU legislation**

**Directive 2010/75/EU on industrial emissions**

VOC-value (in g/L): 393,761

**National regulations**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

**Other regulations, restrictions and prohibition regulations**

**15.2. Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**

**Full text of classification in section 3:**

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

**Classification procedure**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3	Flammable liquids	On basis of test data.
Skin Irrit. 2	skin corrosion/irritation	Calculation method.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
STOT SE 3	Specific target organ toxicity (single exposure)	Calculation method.
Aquatic Chronic 3	Hazardous to the aquatic environment	Calculation method.

**Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community



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EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

**Further information**

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

**Explanation:** NA, n.a. = not known