Material Safety Data Sheet
according to the Regulation 1907/2006/EC (Annex II)

Product Name: 38571
Date: 07.10.2010 Revision date: 18.06.2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Name and Code: 38571

Use of the substance/preparation

Printing
aids

Name of the manufacturer/company:

A.M.Ramp & Co GmbH
RUCO Druckfarben

Lorsbacher Str. 28
D-65817 Eppstein

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2. HAZARDS IDENTIFICATION

Danger classification

10	Flammable.
67	Vapours may cause drowsiness and dizziness.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical family
Organic solvent or solvent mixture

Substances presenting a health or environmental hazard

EINECS-No. CAS-No.	Names R-phrases	Symb.	Conc.
203-631-1 108-94-1	cyclohexanone 10-20	Xn	20 - 25
203-603-9 108-65-6	2-methoxy-1-methylethyl acetate 10-36	Xi	10 - 20
259-370-9 54839-24-6	propylene glycol monoethyl acetate 10-67		50 - 100

See full text of phrases under chapter 16.

4. FIRST AID MEASURES

General
In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation
Remove to fresh air, keep patient warm and at rest, if breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.

Eye contact
Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

Skin contact

Remove contaminated clothing. Wash skin thorougly with soap and water or use recognised skin cleanser. Do **not** use solvents or thinners.

Ingestion

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do **not** induce vomiting.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Recommended: alcohol resistant foam, CO_2, powders, waterspray.

Not to be used: waterjet.

Recommendations

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8.

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Handling

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep container tightly closed. Isolate from sources of heat, sparks and open flame. No sparking tools should be used.
Avoid skin and eye contact. Avoid inhalation of dust, particulates and spray mist arising from the application of this preparation. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8. Never use pressure to empty : container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws.

Storage

Although the storage and use of this product is not subject to specific statutory requirements, observation of the principles of the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations as appropriate will be seen as good industrial practice in meeting the general duties of the Health and Safety at Work Act. Observe label precautions. Store between 5 and 40 °C in a dry, well ventilated place away from sources of heat and direct sunlight. Keep away from sources of ignition. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Provide adequate ventilation. 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.

Exposure Limits

Occupational exposure limit for :

EINECS-No. CAS-No.	Names	STEL	LTEL	
203-631-1 108-94-1	cyclohexanone	408 100	102 25	mg/m3 ppm
203-603-9 108-65-6	2-methoxy-1-methylethyl acetate	550 100	275 50	mg/m3 ppm

Personal Protection

Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.

Hand protection

For prolonged or repeated handling, use butyl rubber gloves. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection

Use safety eyewear designed to protect against splash of liquids.

Skin protection

Personnel should wear anti-static clothings made of natural fibre or of high temperature resistant synthetic fiber.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

appearance: liquid
color: as labeled
odour: typical

Important health, safety and environmental information

Flash point:	43	°C	DIN 53213
Ignition temperature:	325	°C	
Lower explosion limit:	1,0	Vol.%	
Upper explosion limit:	10,8	Vol.%	
Vapour pressure at 20°C:	4,50	mbar	
Specific gravity at 20°C:	0,95	g/cm³	
Water solubility:	partial soluble		
Viscosity at 20°C:	11 s 4 mm		DIN 53211
Solvent-separation test:	< 3	%	ADR/RID
Percent volatile by weight:	100	%	

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (See section 7).

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc. Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

11. TOXICOLOGICAL INFORMATION

There are no data available on the preparation itself. The preparation has been assessed following the conventional methods of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Chapter 3 and 15 for details.
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. ECOLOGICAL INFORMATION

The product should not be allowed to enter drains or water courses

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

13. DISPOSAL CONSIDERATIONS

Do not allow into drains or water courses. Wastes and emptied containers should are to be deposited according to the official rules.

Code of waste	Waste Designation
140603	other solvents and solvent mixtures

14. TRANSPORT INFORMATION

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

ADR/RID Class:	3
Tremcard:	3
UN-No:	1263
Transport document name:	Paint related material
enthält:	cyclohexanone
Packing group:	III

IMDG Class:	3
Tremcard:	3
EmS:	F-E, S-E
UN-No:	1263
Proper shipping name:	PAINT RELATED MATERIAL
enthält:	cyclohexanone
Packing group:	III
Marine pollutant:	n.a.

ICAO/IATA-Class:	3
UN-No:	1263
Proper shipping name:	Paint related material
enthält:	cyclohexanone
Packing group:	III

15. REGULATORY INFORMATION

In accordance with requirements of the Classification Packaging and Labelling of Dangerous Preparations Regulations (1999/45/EC). The product is labelled as follows:

Danger classification

Contains

n.a.

R-phrases

10	Flammable.
67	Vapours may cause drowsiness and dizziness.

S-phrases

51	Use only in well-ventilated areas.

Special provisions concerning the labelling of preparations

n.a.

Information of VOC-properties

VOC (g/l) DIN ISO 11890:	948,000
VOC (g/l) ASTM D-3960-1:	948,000

16. OTHER INFORMATION

Full text of R-phrases with no. appearing in section 3

10	Flammable.
20	Harmful by inhalation.
36	Irritating to eyes.
67	Vapours may cause drowsiness and dizziness.

The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties.

Explanation: NA, n.a. = not known