

Commercial Product Name: Werkzeugreiniger 904-31
Quality No.: 9043100000000

Revision Date 07/03/2010
Print Date 07/06/2010

Version 1

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name : Werkzeugreiniger 904-31

Use of the Substance/Mixture : Industrial serial painting

Company : Mankiewicz Coatings L.L.C
415 Jessen Lane
Charleston, South Carolina 29492
USA

Telephone : +1 843 654-7755
Emergency telephone : CHEMTREC 800-424-9300 or 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Caution

Form: liquid, Color: according product name, Odor: characteristic

OSHA Hazards : COMBUSTIBLE LIQUID
MILD SKIN IRRITANT
MODERATE EYE IRRITANT

Potential Health Effects

Inhalation : Causes headache, drowsiness or other effects to the central nervous system.

Skin : Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.

Eyes : May cause eye irritation.

Ingestion : May cause vomiting.

Carcinogenicity:

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture of organic solvents, halogen-free

Hazardous ingredients

Component	CAS-No.	Weight %
4-HYDROXY-4-METHYLPENTAN-2-ONE	123-42-2	60.00 - 100.00
Butylacetate	123-86-4	1.00 - 5.00

SECTION 4. FIRST AID MEASURES

First aid procedures

- General advice : In all cases of doubt, or when sickness 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.
Irregular breathing/no breathing: artificial respiration.
If unconscious place in recovery position and seek medical advice.
- Skin contact : Take off all contaminated clothing immediately.
Wash skin thoroughly with soap and water or use recognised skin cleanser.
Do NOT use solvents or thinners !
- Eye contact : Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
- Ingestion : Do NOT induce vomiting.
If accidentally swallowed obtain immediate medical attention.
Never give anything by mouth to an unconscious person.
Keep at rest.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

- Flash point : 140 °F (60 °C)
Method: ISO 2719
- Ignition temperature : > 752 °F (> 400 °C)
- Lower explosion limit : 1.0 %(V)
- Upper explosion limit : 10.0 %(V)

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Fire fighting

- Suitable extinguishing media : Alcohol resistant foam, CO2, powders, water spray
- Unsuitable extinguishing media : High volume water jet
- Further information : Cool endangered containers with water in case of fire.
DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES!!

Protective equipment and precautions for firefighters

- Specific hazards during fire fighting : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
- Special protective equipment for fire-fighters : As in any fire, wear self-contained breathing apparatus pressure - demand, MSHA / NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Exclude sources of ignition and ventilate the area.
Do not inhale vapors.
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not let product enter drains.
If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.
- Methods for containment / Methods for cleaning up : 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 chapter 13).
Clean preferably with a detergent; avoid use of solvents.

SECTION 7. HANDLING AND STORAGE

Handling

- Handling : Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentrations higher than the occupational exposure limits.
Comply with the health and safety at work laws.
Smoking, eating and drinking should be prohibited in the application area.
Observe specific national regulations for handling and use of paints.
- Advice on protection against fire and explosion : The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.
Preparation may charge electrostatically: always use earthing leads when transferring from one container to another.

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Operators should wear anti-static footwear and clothing. No sparking tools should be used.
Vapors are heavier than air and may spread along floors.
Vapors may form explosive mixtures with air.

Storage

Requirements for storage areas and containers : Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type.
Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage conditions : Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight.
Keep container dry in a cool, well-ventilated place.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.

Storage temperature : 41 - 95 °F (5 - 35 °C)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Ingredients with workplace control parameters

Ingredients Source	Value	Control parameters
4-HYDROXY-4-METHYLPENTAN-2-ONE CAS-No.123-42-2		
ACGIH	TWA	50 ppm
OSHA P1	TWA	50 ppm 240 mg/m ³
OSHA P0	TWA	50 ppm 240 mg/m ³
Butylacetate CAS-No.123-86-4		
ACGIH	TWA	150 ppm
ACGIH	STEL	200 ppm
OSHA P1	TWA	150 ppm 710 mg/m ³
OSHA P0	TWA	150 ppm 710 mg/m ³
OSHA P0	STEL	200 ppm 950 mg/m ³

Engineering measures

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



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maintain aerosol- and solvent vapors concentration below the OEL, suitable respiratory protection must be worn.

Personal protective equipment

- Protective measures** : Do not eat or drink during work - no smoking.
Avoid product contact with skin, eyes and clothing.
Avoid the inhalation of dust from sanding, particulates and spray mist arising from the application of this preparation.
When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapor in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process until such time as the particulates and solvent vapor concentration has fallen below the exposure limits.
- Eye protection** : Use safety glasses or face shield (ANSI Z87.1 or approved equivalent).
- Hand protection** : Glove permeation data does not exist for this material.
The following glove(s) should be used for splash protection only:
Appropriate material: nitrile
- Skin and body protection** : Personal should wear protective clothing as necessary to prevent skin contact. All parts of the body should be washed after contact.
- Respiratory protection** : If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.
- Use MSHA/NIOSH approved respirator if concentration exceeds recommended exposure levels.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Form** : liquid
- Color** : according product name
- Odor** : characteristic

Safety data

- Flash point** : 140 °F (60 °C)
Method: ISO 2719
- Ignition temperature** : > 752 °F (> 400 °C)
- Lower explosion limit** : 1 %(V)





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Upper explosion limit : 10.0 %(V)

Boiling point/boiling range : ca. 248 °F (120 °C)

Vapor pressure : ca. 100 hPa (75 mmHg)
at 122 °F (50 °C)

Density : 7.84 lb/gal (0.94 g/cm³)
at 68 °F (20 °C)

Water solubility : Note: insoluble

Flow time : < 12 s
4 mm
Method: DIN 53211

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: Stable under recommended storage and handling conditions (See section 7).

Materials to avoid : Remarks: Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products : Note: When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

SECTION 11. TOXICOLOGICAL INFORMATION

Further information : Exposure of vapor concentration in excess of the stated OEL's 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 extrem cases, loss of consciousness. 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.

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information : There are no data available on the preparation itself.

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



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SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

UN-Number : 1263
Description of the goods : PAINT RELATED MATERIAL
Class : 3
Packing group : III
Labels : 3

IATA

UN-Number : 1263
Description of the goods : PAINT RELATED MATERIAL
Class : 3
Packing group : III
Labels : 3
Packing instruction (cargo aircraft) : 310
Packing instruction (passenger aircraft) : 309
Packing instruction (passenger aircraft) : Y309

IMDG

UN-Number : 1263
Description of the goods : PAINT RELATED MATERIAL
Class : 3
Packing group : III
Labels : 3
EmS Number 1 : F-E
EmS Number 2 : S-E

Marine pollutant : no

Other information : If transported within the user's premises: To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Combustible Liquid, Mild skin irritant, Moderate eye irritant
TSCA Status : y (positive listing)

All of the components of this product are either listed in the TSCA inventory or are not subject to the notification requirements(exempt).

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard

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**Clean Air Act
Ozone-Depletion
Potential**

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

**SARA 302 Reportable
Quantity**

: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

US CAA HAP

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

CAA112(r)

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

CAA111

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

US State Regulations

**Massachusetts Right To
Know Ingredients**

: 4-HYDROXY-4-METHYLPENTAN- 123-42-2
2-ONE

butyl acetate 123-86-4

**Pennsylvania Right To
Know Ingredients**

: 4-HYDROXY-4-METHYLPENTAN- 123-42-2
2-ONE

butyl acetate 123-86-4

**New Jersey Right To
Know Ingredients**

: 4-HYDROXY-4-METHYLPENTAN- 123-42-2
2-ONE

butyl acetate 123-86-4

**California Prop. 65
Ingredients**

: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

US Federal Regulations

Volatile organic compounds : VOC content excluding water:
(VOC) content 8 lb/gal (0.94 g/cm3)

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16. OTHER INFORMATION

Further information

Mankiewicz Gebr. & Co. (GmbH & Co. KG)
Georg-Wilhelm-Straße 189
21107 Hamburg (Wilhelmsburg)
Tel.: +49 (0) 40 / 75 10 30
Fax: +49 (0) 40 / 75 10 33 75
www.mankiewicz.de

Bank Name
Deutsche Bank
HypoVereinsbank
Postbank

Ort
Hamburg
Hamburg
Hamburg

Kto.-Nr.
600227300
59273300
373205

BLZ
200 700 00
200 300 00
200 100 20

BIC
DEUTDE33HAN
HYVEDE33HAN
PBNDDE33HAN

IBAN
DE58 2007 0000 0600 2273 00
DE34 2003 0000 0059 2733 00
DE85 2001 0020 0000 3732 05

Sitz/Registergericht Hamburg: HRA 42442
Persönlich haftende Gesellschafterin:
Grau Gebr. Beteiligungs-GmbH
Sitz/Registergericht Hamburg: HRB 17189
Geschäftsführender Gesellschafter:
Michael O. Grau

Bureau Veritas
Certification:
ISO 9001,
TS 16949,
EN 9100





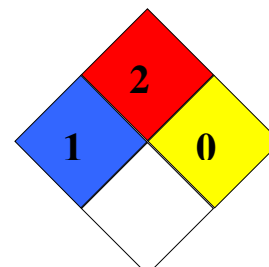
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HMIS Classification : Health Hazard: 2
Flammability: 2
Physical hazards: 0

NFPA Classification : Health Hazard: 1
Fire Hazard: 2
Reactivity Hazard: 0



Department issuing safety data sheet

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