MSDS Name: Graining Pen MSDS Number: 205000 MSDS Date: 9/18/2002



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME AND CODEGraining Pen 205000COMPANY NAME AND ADDRESSHeinrich König & Co.An der Rosenhelle 5

An der Rosenhelle 5 D-61138 Niederdorfelden

Germany

EMERGENCY CONTACT49 / 6101 / 53 60 50 (R & D) **TELEPHONE/FAX**49 / 6101 / 53 60 - 0 (General)
49 / 6101 / 53 60 11 (Fax)

DATE PREPARED 02/04/02

2. COMPOSITION/INFORMATION ON INGREDIENTS								
COMPONENT	CAS NUMBER	WT. %	OSHA		ACGIH		UNITS	
			TWA	STEL	TWA	STEL		
1-methoxy-2-propanol	107-98-2	56.3	100	150	100	150	ppm	
Ethyl alcohol	64-17-5	26.4	1000	N/E	1000	N/E	ppm	

3. HAZARDS INDENTIFICATION

EMERGENCY OVERVIEW DANGER!

FLAMMABLE LIQUID AND VAPOR VAPOR MAY CAUSE FLASH FIRE

VAPOR HARMFUL

CAUSES EYE AND SKIN IRRITATION HARMFUL OR FATAL IF SWALLOWED

POTENTIAL HEALTH EFFECTS

INHALATION Harmful if inhaled. High vapor concentrations may cause drowsiness or

unconsciousness. May cause headaches and dizziness.

EYE CONTACT Causes eye irritation.

SKIN May cause skin irritation. May be harmful if absorbed through the skin.

INGESTION Harmful or fatal if swallowed. Pulmonary aspiration hazard. Product may enter lungs

and cause damage.

CHRONIC Prolonged or repeated overexposure may cause liver and kidney damage.

The following components are listed by OSHA, IARC or NTP as a potential

carcinogen: None

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4. FIRST AID MEASURES

INHALATION Remove to fresh air. Keep patient calm and warm. If not breathing, give mouth-to-

mouth resuscitation. If unconscious, place in recovery position and seek medical

attention.

EYE CONTACT Flush continuously with fresh water for at least 15 minutes, holding the eyelids apart.

Seek medical attention.

SKIN Remove contaminated clothing. Wash skin thoroughly with soap and water. Do NOT

use solvents or thinner. Remove contaminated clothing or shoes. Obtain medical

attention if irritation persists.

INGESTION If accidentally swallowed, obtain immediate medical attention. Keep at rest. Do NOT

induce vomiting. If possible, do not leave individual unattended.

5. FIRE FIGHTING MEASURES

FLASH POINT23 °CMETHOD USEDCCLOWER EXPLOSION LIMIT3.5 Vol. %UPPER EXPLOSION LIMIT15.0 Vol. %

EXTINGUISHING MEDIAUse alcohol-resistant foam, carbon dioxide (CO2) or dry

powder fire extinguisher.

UNSUITABLE MEDIA Water spray may not be effective.

FIRE-FIGHTING EQUIPMENT Wear full fire-fighting bunker gear and respiratory

protection (SCBA).

DANGER IN CASE OF ACCIDENTFire will produce dense black smoke. Exposure to

decomposition-products may cause danger to health. Wear appropriate equipment. Cool closed containers exposed to fire with water. If possible, remove from dangerous area. Do NOT allow runoff from water (caused from fire-fighting) to enter drains or water

streams.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL Immediately contact emergency personnel. Eliminate all sources of ignition. Use **PRECAUTIONS** suitable protective equipment (Section 8). Use explosion-proof equipment. The very

fine particles can cause fire or explosion.

CLEAN-UP MEASURES If emergency personnel are unavailable, contain spilled liquid with non-combustible

absorbent materials e.g. sand, earth, and vermiculite. Use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. Obey all local, state and federal laws regarding chemical spills. Do NOT allow entering

drains or water streams.

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7. HANDLING AND STORAGE

HANDLING

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits.

Additionally, the product should only be used in areas from which all exposed lights and other sources of ignition have been excluded. Electrical equipment should represent the appropriate safety-standard.

Preparation may charge electro-statically: always use ground-wires when transferring from one container to another. Operators should wear antistatic footwear and clothing. The floors should be in connection with electrical ground. Only use sparkfree tools.

Avoid skin and eye contact. Avoid inhalation of vapor and spray-mist. Smoking, eating and drinking should be prohibited in application-area.

STORAGE

Keep container tightly closed. Store between 15 and 30 °C in a dry and well-ventilated area away from heat, sparks and direct sunlight. Keep away from oxidizing agents, from strongly alkaline and strongly acidic materials. Empty containers may retain hazardous properties. Do not cut, puncture or weld on or near the container. Store large quantities only in buildings designed to comply with OSHA 1910.106.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Use exhaust ventilation to keep airborne concentrations below exposure limits

PERSONAL PROTECTIVE EQUIPMENT

EYES Chemical splash goggles in compliance with OSHA are advised.

SKIN Wear resistant gloves such as Buna-N (nitrile rubber). Personnel should

wear antistatic clothing made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after

contact.

RESPIRATORY When respiratory protection is required, or concentrations are unknown

use a NIOSH/MSHA approved air-purifying respirator equipped with organic vapor cartridges or canisters. For emergency and other conditions where exposure limit may be greatly exceeded, use an approved positive-pressure, self-contained breathing apparatus or positive-pressure airline

with auxiliary self-contained air supply.

EXPOSURE GUIDLINES See Section 2 for ingredient exposure limits.

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9. PHYSICAL AND CHEMICAL PROPERTIES						
	TYPICAL VALUE	UNITS				
PHYSICAL STATE	Liquid					
COLOR	Typical					
ODOR	Typical					
pН	N/A					
VAPOR PRESSURE	59	mbar				
VAPOR DENSITY	Heavier than air					
BOILING POINT	78	°C				
MELTING POINT	N/A	°C				
SOLUBILITY IN WATER	Not Soluble					
SPECIFIC GRAVITY	0.92	g/cm3				
PERCENTAGE OF VOC	92	%				
SOLIDS WEIGHT CONTENT	7.65	%				
SOLIDS VOLUME CONTENT	6.95	Liters/100 kg				
WATER CONTENT	0	%				

10. STABILITY AND REACTIVITY

STABILITY Stable under recommended storage and handling conditions.

CONDITIONS TO Avoid static discharge. Avoid heat, sparks and open flame.

AVOID

INCOMPATIBILITY Keep away from strong oxidizers, alkaline and acidic materials.

HAZARDOUS Combustion may produce carbon monoxide, carbon dioxide, oxides of nitrogen,

DECOMPOSITION smoke and other asphyxiants.

PRODUCTS
HAZARDOUS

Will not polymerize.

POLYMERIZATION

11. TOXICOLOGICAL INFORMATION

There are no data available on the preparation itself. Exposure to component solvents vapors concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nerve-system.

Symptoms and signs include headache; dizziness, fatigue, muscular weakness, drowsiness and in extreme 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.

12. ECOLOGICAL INFORMATION

There are no data available on the preparation itself.

The product should not be allowed to enter drains or watercourses.

13. DISPOSAL CONSIDERATIONS

Do not allow the product to enter drains or watercourses. Empty containers should not be used for other purposes and are to be handled as industrial waste according to local, state and federal regulations.

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14. TRANSPORT INFORMATION

SHIPPING NAME PAINT

HAZARD CLASS 3

PACKING GROUP III

UN NUMBER UN1263

15. REGULATORY INFORMATION

TSCA Components of this product are listed on the Toxic Substance Control Act inventory.

OSHA Hazardous by definition of Hazardous Communication Standard (29 CFR

1910.1200).

REPORTABLE	CAS NUMBER	WT%	SARA TITLE III	Proposition 65
INGREDIENTS			(313)	(CALIFORNIA)

16. OTHER INFORMATION

The information in this MSDS is meant as a description of the safety requirements for our product; it is not to be considered a guarantee of the products` properties.

To the best of our knowledge, the information contained herein is accurate. However, neither Coating Development Group, Inc. nor Heinrich König and Company assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exits.