

HEALTH AND SAFETY DATA SHEET

BRUSH MATE FLUID (including VAPOUR MATE impregnated pads)

General Note: Brush Mate storage systems have proved to be very safe in normal use. Only small quantities of fluid are involved and provided that sensible practices are followed it is not visualised that any problems will occur.

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME BRUSH MATE FLUID
SUPPLIER BRUSH MATE PRODUCTS Ltd.,
100 MAIN STREET,
FRODSHAM,
CHESHIRE,
WA6 7AR
TEL: 01928 – 732158
FAX: 01928 – 739710

2 COMPOSITION/INFORMATION OF INGREDIENTS

INGREDIENT NAME	CAS No.	CONTENTS	HEALTH (class)	RISK (R No.)
CYCLOHEXANONE	108-94-1	1-5%	Xn	20
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	64742-95-6	1-5%	Xn, N	65, 51/53
2-BUTANONE-OXIME	96-29-7	30-60%	Xi	36, 43
NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY	64742-82-1	30-60%	Xn, N	65, 52, 53
BUTANOL	71-36-3	5-10%	Xn	20
DIPENTENE	138-86-3	1-5%	Xi	10, 38

3 HAZARDS IDENTIFICATION

Flammable.
Irritating to eyes.
May cause sensitisation by skin contact.
Harmful: may cause lung damage if swallowed.

4 FIRST AID MEASURES

GENERAL: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
INHALATION: Fresh air and rest. Get medical attention if any discomfort continues.
INGESTION: DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Provide rest, warmth and fresh air. If patient vomits, turn to recovery position. Get medical help.
SKIN: Remove contaminated clothing. Rinse the skin immediately with lots of water. Wash clothing before wearing. Get medical attention promptly if symptoms occur after washing.
EYES: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

BRUSH MATE FLUID

5 FIRE FIGHTING MEASURES

- EXTINGUISHING MEDIA:** Fire can be extinguished using: Water spray, fog or mist. Foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc.
- SPECIAL FIRE FIGHTING PROCEDURES:** Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control. In case of fire, wear self contained breathing apparatus and suitable protective clothing.
- PROTECTIVE MEASURES IN FIRE:** Wear suitable respiratory protection when dealing with a fire.
-

6 ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS DURING SPILL:** Wear suitable protective clothing. Avoid breathing vapour.
- PRECAUTIONS TO PROTECT ENVIRONMENT:** Do not let the product or washing down water enter natural water courses or the sewers. Inform relevant authorities if this occurs.
- SPILL CLEANUP METHODS:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Provide ventilation and confine spill. Do not allow runoff to sewer. Clean-up personnel should use respiratory and/or liquid contact protection. Wash thoroughly after dealing with a spillage. Runoff or release to sewer, waterway or ground is forbidden.
-

7 HANDLING AND STORAGE

- USAGE PRECAUTIONS:** Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Wash thoroughly after handling. Take precautionary measures against static discharges. Follow the principles of good occupational hygiene to control personal exposures.
- STORAGE PRECAUTIONS:** Store only in the container in which the product is supplied.
- STORAGE CRITERIA:** Flammable liquid storage.
-

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENT NAME	CAS No	STD	LT EXP (8 hrs)	ST EXP (15 min)
CYCLOHEXANONE	108-94-1	OES	25 ppm	100 ppm
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	64742-95-6		200 mg/m ³	
2-BUTANONE-OXIME	96-29-7		10 mg/m ³	
NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY	64742-82-1		600 mg/m ³	
BUTANOL	71-36-3	OES.		50 ppm(SK)
DIPENTENE	138-86-3	Occupational exposure limits not available.		

- VENTILATION:** Provide adequate ventilation and avoid breathing vapour.
- GLOVES AND EYE PROTECTION:** Protective gloves and goggles should be worn if there is a risk of direct contact or splashing with fluid.
- OTHER PROTECTION:** The normal precautions relating to handling of chemicals must be observed and attention should be given to the data and recommendations contained in the Safety Data Sheet
- HYGIENIC WORK ROUTINES:** Wash promptly if skin becomes wet or contaminated. No eating, drinking or smoking while working with this material.

BRUSH MATE FLUID

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear. Liquid.	COLOUR:	Colourless.
ODOUR/TASTE:	Characteristic.		
SOLUBILITY DESCRIPTION:	Slightly soluble in water.	SPECIFIC GRAVITY (Water=1):	0.858 @ 19°C
FLASH POINT (°C):	38	FLASH POINT METHOD.	Not noted.

10 STABILITY AND REACTIVITY

STABILITY:	Avoid: Heat, sparks, flames.
CONDITIONS TO AVOID:	Avoid: Static electrical discharges. Avoid contact with acids and oxidising substances.
MATERIALS TO AVOID:	Heavy metals.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide (CO). Carbon dioxide (CO ₂). Free Hydroxylamine.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1- LD50:	>2000mg/kg (oral rat)
TOXICOLOGICAL INFORMATION:	<p>SENSITISATION: Sensitisation possible through skin contact. This product is irritating to eyes and mucous membranes. ASPIRATION HAZARD- Do not breathe vapour or spray – May cause lung damage if material gets into the lungs after accidental swallowing or vomiting of ingested material. LD50 dermal rat : expected > 2000 mg/kg.</p> <p>LC50 inh rat : 20mg/l/4h.</p> <p>In a chronic oral toxicity animal study, 2- butanone oxime produced an adverse effect upon red blood cells. This was found for all dose levels tested. HARMFUL: Danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Possible risks of irreversible effects. CHRONIC TOXICITY: 2- butanone oxime affects the blood with reversible dose related effects on haematological parameters (methaemoglobinaemia, haemolytic anaemia and compensatory erythropoiesis).</p> <p>In rats and mice dose related degenerative effects on olfactory epithelium of the nasal cavity occurred. Recovery was noted after cessation of exposure.</p> <p>EPIDEMIOLOGICAL DATA: In animal studies 2-butanone oxime inhibits acetaldehyde dehydrogenase in the liver. Ethyl alcohol use after exposure to the substance might therefore result in high acetaldehyde concentrations resulting in headache, red face, nausea, vomiting, sweating and rapid pulse. (The so called antabuse effect). However, up until now no such related effects to 2-butanone-oxime have been noted in workers handling this substance.</p>
SKIN:	May cause sensitisation by skin contact.
EYES:	Irritating to eyes.
ROUTE OF ENTRY:	Skin and/or eye contact.
TARGET ORGANS:	Skin. Eyes. Respiratory system, lungs.

12 ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS:	No information available.
ACUTE FISH TOXICITY:	Not known.

13 DISPOSAL CONSIDERATIONS

In view of the small quantities normally involved this is unlikely to be an issue. For larger quantities contact the appropriate authorities.

BRUSH MATE FLUID

14 TRANSPORT INFORMATION

LABEL FOR CONVEYANCE: "FLAMMABLE LIQUIDS: 3"
ROAD:UN No: 1993
RAIL TRANSPORT CLASS No: 3
SEA TRANSPORT CLASS No: 3
AIR TRANSPORT CLASS No: 3

15 REGULATORY INFORMATION

LABEL FOR SUPPLY: "HARMFUL"

RISK PHRASES:

R-10	Flammable.
R-36	Irritating to eyes.
R-43	May cause sensitisation by skin contact.
R-65	Harmful: may cause lung damage if swallowed.

SAFETY PHRASES:

S-26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S-37	Wear suitable gloves.
S-51	Use only in well ventilated areas.
S-24/25	Avoid contact with skin and eyes.
S-62	If swallowed, do not induce vomiting. Seek medical advice immediately and show the container or label.

16 OTHER INFORMATION

USER NOTES: Labels should not be removed from containers until they have been cleaned and no product remains within.
ISSUED BY: Brush Mate Products Ltd.
REVISION DATE: 17/07/00

DISCLAIMER

THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS, TO THE BEST OF THE COMPANY'S KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE INDICATED. HOWEVER, NO WARRANTY, GUARANTEE OR REPRESENTATION IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.