

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

PRODUCT NAME; PLASTIC MAGIC, DELUXE MATERIALS BLEND 1

Product Number 8121

Supplier :

Deluxe Materials Limited

Unit 13 Cufaude Business Park

Cufaude Lane

Bramley, Hampshire

RG26 5DL, England

Tel 01256 883944

Emergency Telephone: +44 (0) 1865-407333

2 HAZARDS IDENTIFICATION

Highly flammable.

CLASSIFICATION (1999/45): F;R11.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548)
Formaldehyde	211-463-5	646-06-0	93-95%	F;R11
ethylene acetal				
BUTYL ACETATE - norm	204-658-1	123-86-4	5-10%	R10 R66 R67

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

GENERAL INFORMATION Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INHALATION

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Drink plenty of water. DO NOT induce vomiting. Get medical attention immediately.

SKIN CONTACT Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if irritation persists after

washing.

EYE CONTACT Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA Use: Water spray, fog or mist. Alcohol resistant foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Keep run-off water out of sewers and water sources. Dike for water control. Cool containers exposed to flames with water until well after the fire is out. Move container from fire area if it can be done without risk. Use water spray to reduce vapours. If risk of water pollution occurs, notify appropriate authorities.

UNUSUAL FIRE & EXPLOSION HAZARDS

May explode in a fire. May form explosive or toxic mixtures with air. May explode when heated or when exposed to flames or sparks. May travel considerable distance to source of ignition and flash back. Vapour explosion and poison hazard indoors, outdoors and in sewers.

SPECIFIC HAZARDS Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂).

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS Prevent entry into drains.

SPILL CLEAN UP METHODS

Ventilate well, stop flow of gas or liquid if possible. Remove ignition sources. Do not allow chemical to enter confined spaces such as sewers due to explosion risk. Sewers designed to preclude formation of explosive concentrations of vapour may be permitted.

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb in vermiculite, dry sand or earth and place into containers. Avoid contact with skin or inhalation of spillage, dust or vapour. Clean-up personnel should use respiratory and/or liquid contact protection.

7. HANDLING AND STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Wear full protective clothing for prolonged exposure and/or high concentrations. Static electricity and formation of sparks must be prevented.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from light, including direct sunrays. May attack some plastics, rubber and coatings. Ground container and transfer equipment to eliminate static electric sparks.

STORAGE CLASS

Flammable liquid storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA – 8 Hrs	STEL – 15 Min	Notes
------	-----	-------------	---------------	-------

Formaldehyde ethylene acetal	ACGIH	20 ppm	61 mg/m ³	No std	No std	
Butyl acetate -norm	WEL	150 ppm	724 mg/m ³	200 ppm	966 mg/m ³	

= American Conference of Governmental Industrial Hygienists.

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT

Eye protection :goggles Hand protection: gloves

ENGINEERING MEASURES Provide sufficient ventilation during operations which cause vapour formation.

RESPIRATORY EQUIPMENT If ventilation is insufficient, suitable respiratory protection must be provided. Chemical respirator with organic vapour cartridge.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact. Use protective gloves made of: Butyl rubber. Neoprene. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION Wear splash-proof eye goggles to prevent any possibility of eye contact.

OTHER PROTECTION Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid
COLOUR	Colourless
ODOUR	Characteristic
SOLUBILITY	Soluble in water Miscible with: Organic solvents
BOILING POINT (°C)	74 760 mm Hg
MELTING POINT (°C)	- 95
RELATIVE DENSITY	1.06 20
VAPOUR DENSITY (air=1)	2
VAPOUR PRESSURE	9 kPa 20
VISCOSITY	0.23 cps 30
FLASH POINT (°C)	2 CC (Closed cup).
AUTO IGNITION	274
TEMPERATURE (°C)	
FLAMMABILITY LIMIT - LOWER(%)	12.1
FLAMMABILITY LIMIT - UPPER(%)	20.5

10 STABILITY AND REACTIVITY

STABILITY

Avoid: Heat, sparks, flames. Light. Moisture. Contact with acids.

MATERIALS TO AVOID Acids, oxidising. Acids, non-oxidising. Acids - organic. Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS Vapours/gases/fumes of: Oxides of: Carbon.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 3000 mg/kg (oral rat)

HEALTH WARNINGS

Gas or vapour is harmful on prolonged exposure or in high concentrations. This chemical may cause skin/eye irritation and burns (corrosive). Irritant of eyes and mucous membranes. Narcotic effect. CNS depressant. Repeated exposure may cause chronic eye irritation. Acute eczematous dermatitis, contact type erythema, oedema, papules, vesicles, bullae, crusts, desquamation. Swallowing concentrated chemical may cause severe internal injury. Unconsciousness, death.

ROUTE OF ENTRY

Inhalation. Ingestion. Skin and/or eye contact.

TARGET ORGANS Central nervous system Eyes Respiratory system, lungs Skin

MEDICAL SYMPTOMS

Irritation of eyes and mucous membranes. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. Skin irritation. Nausea, vomiting. Corrosive. Even small amounts may cause serious damage. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo.

MEDICAL CONSIDERATIONS Skin disorders and allergies. Convulsive disorders, CNS problems.

12 ECOLOGICAL INFORMATION

MOBILITY Dissolves in water. Lost within a day by evaporation and dissolution.

BIOACCUMULATION Product is not expected to bioaccumulate

DEGRADABILITY This product is readily biodegradable

ACUTE FISH TOXICITY Practically non toxic

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Confirm disposal procedures with environmental engineer and local regulations.

14 TRANSPORT INFORMATION

PROPER SHIPPING NAME FLAMMABLE LIQUID NOS (contains Formaldehyde ethylene acetal and n Butyl Acetate)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT No.

UN NO. ROAD 1993

ADR CLASS NO. 3

ADR CLASS Class 3: Flammable liquids.

ADR PACK GROUP . II

TUNNEL RESTRICTION CODE (D/E)

HAZARD NO. (ADR) 33 Highly flammable liquid (flash-point below 23°C).

HAZARD No. (ADR) 33

ADR LABEL NO. 3

HAZCHEM CODE 2YE

UN NO. SEA 1993

IMDG PACK GR. II

UN NO. AIR 1993

AIR CLASS 3

AIR PACK GR. II

15 REGULATORY INFORMATION

LABELLING

Highly Flammable

RISK PHRASES R11 Highly flammable.

SAFETY PHRASES

S9 Keep container in a well-ventilated place.

S16 Keep away from sources of ignition - No smoking.

S51 Use only in well-ventilated areas.

S60 This material and its container must be disposed of as hazardous waste.

UK REGULATORY REFERENCES

REV. NO./REPL. SDS GENERATED ISSUE NO 1

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

ENVIRONMENTAL LISTING Environmental Protection Act 1990 Special Waste Regulations 1996

EU DIRECTIVES Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

APPROVED CODE OF PRACTICE Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES Workplace Exposure Limits EH40.

16 OTHER INFORMATION

REVISION DATE 22/12/2010

REV. NO./REPL. SDS GENERATED Issue No 1

SDS NO. 8121

SAFETY DATA SHEET STATUS Approved.

RISK PHRASES IN FULL

R10 Flammable

R11 Highly flammable.

R66 Repeated exposure may cause skin dryness or cracking

R67 Vapours may cause drowsiness and dizziness.

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 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.