

Material Safety Data Sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date : 10.02.2012

Product name : e.diamond

- Sapphire Blue
- Emerald Green
- Diamond White fine / medium
- Red Ruby
- Gold

SECTION 1 - Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier: e.diamond

- Saphier Blue
- Emerald Green
- Diamond White fine / medium
- Red Ruby
- Gold

1.2 Relevant identified uses of the substance or mixture and uses advised against
Car refinishing products
Customer article no

1.3 Details of the supplier of the safety data sheet

ALKEMIA SRL
VIA SACCARDO, 37
20134 MILANO ITALY

E-mail address
info.alkemia@alice.it

1.4 Emergency phone
+39.2.21872267

SECTION 2 - Hazards Identification
Classification of the substance or mixture

According to Directive 67/548/EEC or 1999/45/EC

- Flammable.
- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Contains methyl 1,2,2,6,6 pentamethyl-4-piperidyl sebacate, bis-(1,2,2,6,6-pentamethyl-4-piperidinyl)-sebacate. May produce an allergic reaction.

Label elements

According to Directive 67/548/EEC respectively 1999/45/EC (Annex V, Section A and B)

Danger symbol: **n.a.**
Product contains: **n.a.**
Risk Warnings

Material Safety Data Sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date : 10.02.2012

Product name : e.diamond

- Sapphire Blue
- Emerald Green
- Diamond White fine / medium
- Red Ruby
- Gold

R10 : Flammable.
R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Labelling for Industrial Users

S23 : Do not breathe spray dust/solvent vapour.
S38 : In case of insufficient ventilation, wear suitable respiratory equipment.
S61 : Avoid release to the environment. Refer to special instruction/Safety data sheets.
Special labelling of certain preparations : Contains methyl 1,2,2,6,6 pentamethyl-4-piperidyl sebacate, bis-(1,2,2,6,6-pentamethyl-4-piperidinyl)-sebacate. May produce an allergic reaction.

SECTION 03 - Composition/Information on Ingredients Substances

not applicable

Mixtures

Chemical nature acrylic resin, organic solvent, colorants.

Hazardous ingredients according to Regulation (EC) No. 1272/2008

CAS no. EINECS no. REACH no. INDEX no.

% (weight)

Hazard Statement

1,2,4-trimethylbenzene

95-63-6 202-436-9 601-043-00-3

0,2 - < 0,3

H226 H332 H315 H319 H335 H411

- Flammable liquids Category 3

- Acute toxicity Inhalation - vapour Category 4

- Skin corrosion/irritation Category 2

- Serious eye damage/eye irritation Category 2A

- Specific target organ toxicity following single exposure irritating to respiratory system Category 3

- Chronic hazards to the aquatic environment Category 2

Material Safety Data Sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date : 10.02.2012

Product name : e.diamond

- Sapphire Blue
- Emerald Green
- Diamond White fine / medium
- Red Ruby
- Gold

methyl isobutyl ketone

108-10-1 203-550-1 606-004-00-4

13,5 - < 18,0

H225 H332 H319 H335

- Flammable liquids Category 2
- Acute toxicity Inhalation - vapour Category 4
- Serious eye damage/eye irritation Category 2A
- Specific target organ toxicity following single exposure irritating to respiratory system Category 3

hydroxyphenyl-alkylbenzotriazole

127519-17-9 607-281-00-4

1,0 - < 2,0

H411

- Chronic hazards to the aquatic environment Category 2

methyl 1,2,2,6,6 pentamethyl-4-piperidyl sebacate

82919-37-7 280-060-4

0,2 - < 0,3

H317 H400 H410

- Skin sensitizer Category 1
- Acute hazards to the aquatic environment Category 1
- Chronic hazards to the aquatic environment Category 1

benzoic acid

65-85-0 200-618-2

1,0 - < 2,0

H319

- Serious eye damage/eye irritation Category 2A

bis-(1,2,2,6,6-pentamethyl-4-piperidinyl)-sebacate

41556-26-7 255-437-1

0,5 - < 1,0

H317 H400 H410

- Skin sensitizer Category 1
- Acute hazards to the aquatic environment Category 1
- Chronic hazards to the aquatic environment Category 1

solvent naphtha (petroleum), light aromatic

64742-95-6 265-199-0 649-356-00-4

0,3 - < 0,5

H226 H411 H304 H336

- Flammable liquids Category 3
- Chronic hazards to the aquatic environment Category 2
- Aspiration hazard Category 1

Material Safety Data Sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date : 10.02.2012

Product name : e.diamond

- Sapphire Blue
- Emerald Green
- Diamond White fine / medium
- Red Ruby
- Gold

- Specific target organ toxicity following single exposure Vapours may cause drowsiness and dizziness. Category 3 Hazardous ingredients according to Directive 1999/45/EC

**CAS no. EINECS no. REACH no. INDEX no.
% (weight) Symbol R phrases**

1,2,4-trimethylbenzene

95-63-6 202-436-9 601-043-00-3

0,2 - < 0,3 N,Xn 10-20-36/37/38-51/53

methyl isobutyl ketone

108-10-1 203-550-1 606-004-00-4

13,5 - < 18,0 F,Xn 11-20-36/37-66

hydroxyphenyl-alkylbenzotriazole

127519-17-9 607-281-00-4

1,0 - < 2,0 N 51/53

methyl 1,2,2,6,6 pentamethyl-4-piperidyl sebacate

82919-37-7 280-060-4

0,2 - < 0,3 N,Xi 43-50/53

benzoic acid

65-85-0 200-618-2

1,0 - < 2,0 Xi 36

bis-(1,2,2,6,6-pentamethyl-4-piperidiny)-sebacate

41556-26-7 255-437-1

0,5 - < 1,0 N,Xi 43-50/53

solvent naphtha (petroleum), light aromatic

64742-95-6 265-199-0 649-356-00-4

0,3 - < 0,5 N,Xn 10-51/53-65-66-67

The wording of the hazard symbols, R-phrases and H-statements is specified in chapter 16 if dangerous ingredients are mentioned.

SECTION 04 - First Aid Measures

Description of first aid measures

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

If inhaled : Remove patient to fresh air and seek medical

Material Safety Data Sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date : 10.02.2012

Product name : e.diamond

- Sapphire Blue
- Emerald Green
- Diamond White fine / medium
- Red Ruby
- Gold

assistance. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position.

On skin contact : Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

On contact with eyes : Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water or a special eyewash solution and seek medical advice.

On ingestion : If swallowed, rinse mouth with plenty of water (only if the person is conscious) and seek medical advice immediately. Keep the injured person at rest. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 05 - Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media

Foam (alcohol resistant), carbon dioxide, powders, water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Unsuitable extinguishing media for safety reasons

Water jet

Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

Advice for fire-fighters

Material Safety Data Sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date : 10.02.2012

Product name : e.diamond

- Sapphire Blue
- Emerald Green
- Diamond White fine / medium
- Red Ruby
- Gold

Special protective equipment.

Appropriate breathing apparatus may be required.

Additional information

Cool closed containers in the vicinity of the source of fire.

SECTION 06 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and ventilate the area. Avoid breathing vapours.

Environmental precautions

Do not allow to enter drains or watercourses. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents.

Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 07 - Handling and Storage

Precautions for safe handling

Instructions for Safe Handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.

Avoid skin and eye contact. Avoid inhalation of vapour and spray mist.

Avoid inhalation of dust from sanding.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

Isolate from sources of heat, sparks and open flame. Do not use any sparking tools.

Material Safety Data Sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date : 10.02.2012

Product name : e.diamond

- Sapphire Blue
- Emerald Green
- Diamond White fine / medium
- Red Ruby
- Gold

Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

Information on Fire and Explosion Protection

Solvent vapours are heavier than air and spread along floors.
Vapour forms explosive mixtures with air.

Keep container dry and tightly closed in a cool well-ventilated place.

Conditions for safe storage, including any incompatibilities

Requirements for Storage Areas and Containers

Electrical equipment must be explosion-proof to the appropriate standard. Floors must be of conducting type and impermeable to the materials being stored.

Keep container tightly closed. Never use pressure to empty; container is not a pressure vessel. Close containers carefully once opened and store upright in order to prevent any leakage. No smoking. Prevent unauthorized access.

Information on Combined Storage

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Additional Information on Storage Conditions

Always keep in containers of same material as the original one. Observe label precautions. Store in a dry, well ventilated place away from sources of heat and direct sunlight. Keep away from sources of ignition.

Storage temperature : 5 - 35 °C

Specific end use(s)

Detailed information can be gained from the relevant technical data sheets.

Material Safety Data Sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date : 10.02.2012

Product name : e.diamond

- Sapphire Blue
- Emerald Green
- Diamond White fine / medium
- Red Ruby
- Gold

SECTION 08 - Exposure Controls/Personal Protection

Control parameters

Occupational Exposure Limits

CAS no. limit values ml/m3 (ppm) - mg/m3

1,2,4-trimethylbenzene

95-63-6 EU-L 20 - 100

methyl isobutyl ketone

108-10-1 EU-L 20 - 83
EU-S 50 - 208

In addition to the indicative occupational exposure limit values according to Directive 2000/39/EC, the country-specific occupational exposure limits applicable to the substances specified in chapter 03 must be taken into account.

Exposure controls

Engineering Measures

Provide adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Personal protective equipment

Respiratory Protection

When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet (sanding/flatting) should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

Use A1P2 breathing-protection half mask in case of contact with aerosols.

Hand Protection

Wear protective gloves.

Any chemical protection glove certified according to EN 374 is suitable: e.g. nitrile gloves

Material thickness: = 0,7 mm

Material Safety Data Sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date : 10.02.2012

Product name : e.diamond

- Sapphire Blue
- Emerald Green
- Diamond White fine / medium
- Red Ruby
- Gold

Further information on penetration time is available from the manufacturer of the glove.

Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components.

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

Follow manufacturer's advice on use, storage, maintenance and replacement of gloves.

The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Eye Protection

Required when there is a risk of eye contact.

Skin Protection

Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

Environmental exposure controls

see section 7 and 12

SECTION 09 - Physical and Chemical Properties

Physical state : liquid

Colour : perlescent iridescent

Odour : specific

pH : n.a.

Change in physical state

Boiling temperature/range : 124 - 165 °C

Melting point/range : n.d.a.

Flash point : +023 °C ISO 3679

Ignition temperature : > 200 °C solvents

Explosion limits, lower : > 35 g/m³

upper : n.d.a.

Vapour pressure : 5,0 hPa at 20°C

Density : 1,016 g/cm³ at 20°C

Solubility in water : immiscible

Viscosity : >060/6 s at 20°C ISO 2431

Material Safety Data Sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date : 10.02.2012

Product name : e.diamond

- Sapphire Blue
- Emerald Green
- Diamond White fine / medium
- Red Ruby
- Gold

SECTION 10 - Stability and Reactivity
Reactivity

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

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

Incompatible materials

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

Hazardous decomposition products

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced.

SECTION 11 - Toxicological Information

The preparation has been assessed following the conventional method of the Dangerous Preparation Directive 1999/45/EC.

See Sections 3 and 15 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated and prolonged exposure to solvents at levels significantly above OELs may lead to the development of long-lasting central nervous system disorders such as chronic toxic encephalopathy, signs of toxicity include changes in behaviour and memory. 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.

Material Safety Data Sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date : 10.02.2012

Product name : e.diamond

- Sapphire Blue
- Emerald Green
- Diamond White fine / medium
- Red Ruby
- Gold

SECTION 12 - Ecological Information General

There are no test results available for this product.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly.

See sections 3 and 15 for details.

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

Persistence and degradability

Biological degradability of hazardous substances mentioned in section 3:

CAS no. test method biological degradability %

1,2,4-trimethylbenzene

95-63-6 OECD 301 A hardly bio-degradable

solvent naphtha (petroleum), light aromatic

64742-95-6 OECD 301 A readily bio-degradable

SECTION 13 - Disposal Considerations

Waste treatment methods

Observe national and local legal requirements.

European list of wastes

Commission Decision 2000/532/EC dated 3rd May, 2000

08 01 11*

Waste from the manufacture, formulation, supply and use (MFSU) and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances

Any waste marked with an asterisk (*) is considered as a hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

Contaminated packaging

Recommendation

Containers which are not properly emptied must be disposed pursuant to Directive 91/689/EEC

Material Safety Data Sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date : 10.02.2012

Product name : e.diamond

- Sapphire Blue
- Emerald Green
- Diamond White fine / medium
- Red Ruby
- Gold

SECTION 14 - Transport Information

Transport by Road or Rail

UN 1263, Paint, 3, III, (D/E), ADR/RID

Special provision 640 E

Hazard identification number 30

Sea Transport

UN 1263, PAINT, 3, III

EMS: F-E, S-E

Air Transport

UN 1263, PAINT, 3, III

Additional Information

"NOT CLASS 3 GOODS" in containers of less than 450 litres; ADR

SECTION 15 - Regulatory Information

Information pursuant to VOC Directive 1999/13/EC (for product as supplied)

Volatile organic solvents: 40 %

VOC : 40 %

Volatile CMR substances : n.a.

Volatile halogenated substances labelled with R40:

n.a.

Details relating to the VOC Directive 2004/42/EC

Subcategory as indicated in Annex IIB : d

Limit value for maximum VOC content

as specified in Annex IIB : 420 g/l

VOC content of the ready-for-use product

according to ISO 11890-2 : 419 g/l

National Regulations

SECTION 16 - Other Information

Restricted to professional users.

This Safety Data Sheet is prepared in accordance with Regulation (EC) No 1907/2006, Annex II.

The information contained in this safety data sheet does not relieve users from the obligation to carry out their own risk assessment according to Directive 98/24/EC.

Material Safety Data Sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date : 10.02.2012

Product name : e.diamond

- Sapphire Blue
- Emerald Green
- Diamond White fine / medium
- Red Ruby
- Gold

Full text of risk warnings for components listed in section 3

R10

Flammable.

R11

Highly flammable.

R20

Harmful by inhalation.

R36

Irritating to eyes.

R36/37

Irritating to eyes and respiratory system.

R36/37/38

Irritating to eyes, respiratory system and skin.

R43

May cause sensitization by skin contact.

R50/53

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65

Harmful: may cause lung damage if swallowed.

R66

Repeated exposure may cause skin dryness or cracking.

R67

Vapours may cause drowsiness and dizziness.

H225

Highly flammable liquid and vapour.

H226

Flammable liquid and vapour.

H304

May be fatal if swallowed and enters airways.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H332

Harmful if inhaled.

H335

May cause respiratory irritation.

Material Safety Data Sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date : 10.02.2012

Product name : e.diamond

- Sapphire Blue
- Emerald Green
- Diamond White fine / medium
- Red Ruby
- Gold

H336

May cause drowsiness or dizziness.

H400

Very toxic to aquatic life.

H410

Very toxic to aquatic life with long lasting effects.

H411

Toxic to aquatic life with long lasting effects.

N Dangerous for the environment

Xn Harmful

F Highly flammable

Xi Irritant

For multi-pack systems observe material safety data sheets of all components.

Explanation of abbreviations:

n.d.a. no data available

n.a. not applicable

EU-L Indicative occupational exposure limit value according to Directive 98/24/EC - 8 hours

EU-S Indicative occupational exposure limit value according to Directive 98/24/EC - short - term

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.