



SAFETY DATA SHEET

Epoxy Primer 37002 (S 15/76), yellow

Code: 37002/000000

1. Identification of the substance/preparation and company/undertaking

Product name and/or code : Epoxy Primer 37002 (S 15/76), yellow

Manufacturer : Akzo Nobel Aerospace Coatings
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The Netherlands

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Emergency telephone number of the company : +31 (0)71 308 6944

Product use : FOR INDUSTRIAL USE ONLY

2. Composition/information on ingredients

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

| Chemical name* | CAS no. | % | EC number | Classification |
|---|------------|----------|-----------|--|
| phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[[1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] | 25036-25-3 | 10 - 25 | | Xi; R36/38 R43 |
| Isobutyl acetate | 110-19-0 | 10 - 25 | 203-745-1 | F; R11 R66 |
| Strontium chromate | 7789-06-2 | 10 - 25 | 232-142-6 | Carc. Cat. 2; R45 Xn; R22 N; R50/53 |
| toluene | 108-88-3 | 2.5 - 10 | 203-625-9 | F; R11 Repr. Cat. 3; R63 Xn; R48/20, R65 Xi; R38 R67 |
| xylene | 1330-20-7 | 2.5 - 10 | 215-535-7 | R10 Xn; R20/21 Xi; R38 |
| ethylbenzene | 100-41-4 | 1 - 2.5 | 202-849-4 | F; R11 Xn; R20 |
| Solvent naphtha (petroleum), heavy arom. | 64742-94-5 | 0 - 1 | 265-198-5 | Xn; R65 R66, R67 N; R51/53 |
| See section 16 for the full text of the R-phrases declared above | | | | |
| See section 16 for the full text of the R-phrases declared above | | | | |

Occupational exposure limits, if available, are listed in section 8.

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

- Classification** : F; R11
Carc. Cat. 2; R45
Repr. Cat. 3; R63
Xn; R20/21/22
Xi; R36/38
R43
N; R51/53
- Physical/chemical hazards** : Highly flammable.
- Human health hazards** : May cause cancer. Possible risk of harm to the unborn child. Also harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin. May cause sensitisation by skin contact.
- Environmental hazards** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First-aid measures

First-aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do not use solvents or thinners.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.

5. Fire-fighting measures

- Extinguishing media** : Recommended: alcohol-resistant foam, CO₂, powders, water spray.
Not to be used : water jet.
- Recommendations** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

6. Accidental release measures

- Personal precautions** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
- Spill** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.
- In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

To dissipate static electricity during transfer, earth drum and connect to receiving container with bonding strap. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Put on appropriate personal protective equipment (see section 8).

Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

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.

Storage

: Store in accordance with local regulations. Observe label precautions. Store in a cool, well-ventilated area away from incompatible materials and ignition sources.

Keep away from: oxidising agents, strong alkalis, strong acids.

No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Do not empty into drains.

8. Exposure controls/personal protection

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 maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Ingredient name

Occupational exposure limits

Isobutyl acetate

EH40-WEL (United Kingdom (UK), 9/2006).

WEL 15 min limit: 903 mg/m³ 15 minute(s).

WEL 15 min limit: 187 ppm 15 minute(s).

WEL 8 hrs limit: 724 mg/m³ 8 hour(s).

WEL 8 hrs limit: 150 ppm 8 hour(s).

Strontium chromate

EH40-WEL (United Kingdom (UK), 9/2006). Notes: As Cr

WEL 8 hrs limit: 0.05 mg/m³, (As Cr) 8 hour(s).

toluene

EH40-WEL (United Kingdom (UK), 9/2006). Skin

WEL 15 min limit: 574 mg/m³ 15 minute(s).

WEL 15 min limit: 150 ppm 15 minute(s).

WEL 8 hrs limit: 191 mg/m³ 8 hour(s).

WEL 8 hrs limit: 50 ppm 8 hour(s).

xylene

EH40-WEL (United Kingdom (UK), 9/2006). Skin

WEL 15 min limit: 441 mg/m³ 15 minute(s).

WEL 15 min limit: 100 ppm 15 minute(s).

WEL 8 hrs limit: 220 mg/m³ 8 hour(s).

WEL 8 hrs limit: 50 ppm 8 hour(s).

ethylbenzene

EH40-WEL (United Kingdom (UK), 9/2006). Skin

WEL 15 min limit: 552 mg/m³ 15 minute(s).

WEL 15 min limit: 125 ppm 15 minute(s).

WEL 8 hrs limit: 441 mg/m³ 8 hour(s).

WEL 8 hrs limit: 100 ppm 8 hour(s).

Personal protective equipment

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Respiratory system : If workers are exposed to concentrations above the exposure limit, 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/flattening should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

Skin and body : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

Hands

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Eyes : Use safety eyewear designed to protect against splash of liquids.

Environmental exposure controls

Do not allow to enter drains or watercourses.

9. Physical and chemical properties

| | |
|-------------------------|---|
| Physical state | : Liquid. |
| Colour | : yellow |
| Flash point | : Closed cup: 16°C (60.8°F) |
| Viscosity | : Kinematic: 4.327301 cm ² /s (432.7301 cSt) |
| Relative density | : 1.271 |
| VOC content | : 493 |

10. Stability and reactivity

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

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

11. Toxicological information

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 2 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 effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. 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. If splashed in the eyes, the liquid may cause irritation and reversible damage.

Contains phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]. May produce an allergic reaction.

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|--------------------|---------|--------------|----------|
| isobutyl acetate | LD50 Dermal | Rabbit | >17400 mg/kg | - |
| | LD50 Oral | Rat | 13400 mg/kg | - |
| strontium chromate | LD50 Intratracheal | Rat | 16.6 mg/kg | - |
| | LD50 Oral | Rat | 3118 mg/kg | - |
| toluene | LD50 Dermal | Rabbit | 14100 uL/kg | - |
| | LD50 | Rat | 1332 mg/kg | - |
| | Intraperitoneal | | | |
| | LD50 Intravenous | Rat | 1960 mg/kg | - |
| | LD50 Oral | Rat | 636 mg/kg | - |

| | | | | |
|--|-----------------|--------|-------------|---|
| | LD50 Unreported | Rat | 6900 mg/kg | - |
| | LDLo | Rat | 2.5 mL/kg | - |
| | Intraperitoneal | | | |
| | TDLo | Rat | 1 g/kg | - |
| | Intraperitoneal | | | |
| | TDLo | Rat | 750 mg/kg | - |
| | Intraperitoneal | | | |
| | TDLo | Rat | 600 mg/kg | - |
| | Intraperitoneal | | | |
| | TDLo Oral | Rat | 400 mg/kg | - |
| | TDLo | Rat | 900 mg/kg | - |
| | Intraperitoneal | | | |
| | TDLo Oral | Rat | 800 mg/kg | - |
| xylene | LD50 Dermal | Rabbit | >1700 mg/kg | - |
| | LD50 | Rat | 2459 mg/kg | - |
| | Intraperitoneal | | | |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| | LD50 | Rat | 1700 mg/kg | - |
| | Subcutaneous | | | |
| ethylbenzene | LD50 Dermal | Rabbit | 17800 uL/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| | TDLo | Rat | 1062 mg/kg | - |
| | Intraperitoneal | | | |
| solvent naphtha (petroleum), heavy arom. | LD50 Dermal | Rabbit | >2 mL/kg | - |
| | LDLo Oral | Rat | 5 mL/kg | - |

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

12. Ecological information

There is no data available on the preparation itself.
Do not allow to enter drains or watercourses.

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 2 and 15 for details.

Aquatic ecotoxicity

| Product/ingredient name | Test | Result | Species | Exposure |
|--------------------------------|--------------|----------------------|----------------|-----------------|
| toluene | Behavior | Acute EC50 6.78 mg/L | Fish | 48 hours |
| | Intoxication | Acute EC50 6.56 mg/L | Daphnia | 48 hours |
| | Intoxication | Acute EC50 6 mg/L | Daphnia | 48 hours |
| | Mortality | Acute LC50 6.78 mg/L | Fish | 96 hours |
| | Mortality | Acute LC50 12.6 mg/L | Fish | 96 hours |
| | Mortality | Acute LC50 5.8 mg/L | Fish | 96 hours |
| xylene | Mortality | Acute LC50 13.4 mg/L | Fish | 96 hours |

| | | | | |
|--------------|--------------|----------------------|---------|----------|
| | Mortality | Acute LC50 13.3 mg/L | Fish | 96 hours |
| | Mortality | Acute LC50 12 mg/L | Fish | 96 hours |
| | Mortality | Acute LC50 8.6 mg/L | Fish | 96 hours |
| | Mortality | Acute LC50 8.2 mg/L | Fish | 96 hours |
| | Mortality | Acute LC50 3.3 mg/L | Fish | 96 hours |
| ethylbenzene | Population | Acute EC50 7.2 mg/L | Algae | 48 hours |
| | Intoxication | Acute EC50 2.97 mg/L | Daphnia | 48 hours |
| | Intoxication | Acute EC50 2.93 mg/L | Daphnia | 48 hours |
| | Mortality | Acute LC50 4.2 mg/L | Fish | 96 hours |
| | Mortality | Acute LC50 9.09 mg/L | Fish | 96 hours |
| | Mortality | Acute LC50 9.6 mg/L | Fish | 96 hours |

Conclusion/Summary : Not available.

Biodegradability

Conclusion/Summary : Not available.

13. Disposal considerations

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

14. Transport information

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Land - road/railway

UN number : UN1263
Transport document name : PAINT
ADR/RID Class : 3
Packing group : III
ADR/RID Label :



Sea

UN number : UN1263
Proper shipping name : PAINT
Special provisions : Not available.
IMDG Class : 3
Packing group : III
IMDG Label :



Marine pollutant : No.

Emergency schedules (EmS) : F-E, S-E

Air

UN number : UN1263
Proper shipping name : PAINT
Special provisions : Not available.

ICAO/IATA Classification : 3
Packing group : III

The "viscosity exemption" provisions do not apply to air transport.

ICAO/IATA label :

**Inland waterways**

UN number : UN1263
Proper shipping name : PAINT
ADNR Classification : 3
Packing group : III
ADNR Label :



15. Regulatory information

EU regulations : The product is classified and labelled for supply in accordance with the Directive 1999/45/EC as follows:

Hazard symbol or symbols :



Highly flammable, Toxic, Dangerous for the environment

Risk phrases

: R11- Highly flammable.
R45- May cause cancer.
R63- Possible risk of harm to the unborn child.
R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
R36/38- Irritating to eyes and skin.
R43- May cause sensitisation by skin contact.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

: S53- Avoid exposure - obtain special instructions before use.
S23- Do not breathe vapour or spray.
S36/37- Wear suitable protective clothing and gloves.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Contains

: phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]
Strontium chromate
toluene

Restrictions on the Marketing and Use Directive

: Restricted to professional users.

EU statistical classification (Tariff Code) : 32089019

Industrial use : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

16. Other information

CEPE Classification : 1

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK) : R11- Highly flammable.
R10- Flammable.
R45- May cause cancer.
R63- Possible risk of harm to the unborn child.
R20- Harmful by inhalation.
R22- Harmful if swallowed.
R20/21- Harmful by inhalation and in contact with skin.
R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65- Harmful: may cause lung damage if swallowed.
R38- Irritating to skin.
R36/38- Irritating to eyes and skin.
R43- May cause sensitisation by skin contact.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.
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.

The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

Date of issue : 3/16/2007.

Indicates information that has changed from previously issued version.

Notice to reader

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE *The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.*

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