



# SAFETY DATA SHEET

FLUID RESISTANT PRIMER 463-12-8 GREEN 065724 SPEC: DMS 1786

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

**Product Name and/or Code** : Epoxy Primer 37052, green

**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
mica	12001-26-2	2.5-10		
Butanone	78-93-3	2.5-10	201-159-0	F; R11 Xi; R36 R66, 67
Strontium chromate	7789-06-2	2.5-10	232-142-6	Carc. Cat. 2; R45 Xn; R22 N; R50/53
4-Methylpentan-2-one	108-10-1	2.5-10	203-550-1	F; R11 Xn; R20 Xi; R36/37 R66
Xylene	1330-20-7	2.5-10	215-535-7	R10 Xn; R20/21 Xi; R38
n-butyl acetate	123-86-4	2.5-10	204-658-1	R10 R66, 67
Butan-1-ol	71-36-3	2.5-10	200-751-6	R10 Xn; R22 Xi; R37/38, 41
Ethylbenzene	100-41-4	1-2.5	202-849-4	R67 F; R11 Xn; R20
See Section 16 for the full text of the R Phrases declared above				

\* Occupational Exposure Limit(s), 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  
Xn; R20/21/22  
Xi; R36  
R66  
N; R51/53

The preparation may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

### 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, CO<sub>2</sub>, powders, water spray.  
Not to be used : waterjet.
- 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 materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product contaminates lakes, rivers or sewage, inform 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 vapour in air and avoid vapour concentration 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 anti-static 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 and spray mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in area 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 of 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.

Treatments such as sanding, welding, burning off, etc. of paint films may generate hazardous dust and/or fumes. Work in well ventilated areas. Use suitable personal (respiratory) protective equipment, as necessary.

**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 which are 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 vapour below the OEL, suitable respiratory protection must be worn.

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
Butanone	<b>EH40-OES (United Kingdom (UK), 2002). Skin Notes:</b> STEL: 899 mg/m <sup>3</sup> 15 minute(s). STEL: 300 ppm 15 minute(s). TWA: 600 mg/m <sup>3</sup> 8 hour(s). TWA: 200 ppm 8 hour(s).
Strontium chromate	<b>EH40-MEL (United Kingdom (UK), 2002). Notes:</b> TWA: 0.05 mg/m <sup>3</sup> 8 hour(s).
4-Methylpentan-2-one	<b>EH40-OES (United Kingdom (UK), 2002). Skin Notes:</b> STEL: 416 mg/m <sup>3</sup> 15 minute(s). STEL: 100 ppm 15 minute(s). TWA: 208 mg/m <sup>3</sup> 8 hour(s). TWA: 50 ppm 8 hour(s).
Xylene	<b>EH40 (United Kingdom (UK), 2000). Skin</b> TWA: 100 ppm 8 hour(s). TWA: 435 mg/m <sup>3</sup> 8 hour(s). <b>EH40-OES (United Kingdom (UK), 2002). Skin Notes:</b> STEL: 441 mg/m <sup>3</sup> 15 minute(s). STEL: 100 ppm 15 minute(s). TWA: 220 mg/m <sup>3</sup> 8 hour(s). TWA: 50 ppm 8 hour(s).
n-butyl acetate	<b>EH40-OES (United Kingdom (UK), 2002). Notes:</b> STEL: 966 mg/m <sup>3</sup> 15 minute(s). STEL: 200 ppm 15 minute(s). TWA: 724 mg/m <sup>3</sup> 8 hour(s). TWA: 150 ppm 8 hour(s).
Butan-1-ol	<b>EH40-OES (United Kingdom (UK), 2002). Skin Notes:</b> STEL: 154 mg/m <sup>3</sup> 15 minute(s).

Ethylbenzene

STEL: 50 ppm 15 minute(s).

**EH40 (United Kingdom (UK), 2000).**

TWA: 100 ppm 8 hour(s).

TWA: 435 mg/m<sup>3</sup> 8 hour(s).**EH40-OES (United Kingdom (UK), 2002). Skin Notes:**STEL: 552 mg/m<sup>3</sup> 15 minute(s).

STEL: 125 ppm 15 minute(s).

TWA: 441 mg/m<sup>3</sup> 8 hour(s).

TWA: 100 ppm 8 hour(s).

**Personal protective equipment**

- Respiratory system** : If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.
- Skin and body** : Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.
- Hands** : For prolonged or repeated handling, use gloves: polyvinyl alcohol or latex rubber.
- Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.
- Eyes** : Use safety eyewear designed to protect against splash of liquids.

**Environmental exposure control**

Do not allow to enter drains or watercourses.

**9. Physical and chemical properties**

- Physical state** : Liquid.
- Odour** : Not available.
- Colour** : Not available.
- Flash point** : Closed cup: 4°C (39.2°F).
- pH** : Not available.
- Viscosity** : Kinematic: 192.456 cSt
- Specific gravity** : 1.299 (Water = 1)
- Vapour density** : The highest known value is 4 (Air = 1) (n-butyl acetate). Weighted average: 3.22 (Air = 1)
- Lower explosion limit** : The greatest known range is LOWER: 1.4% UPPER: 11.3% (Butan-1-ol)
- Solubility** : Partially soluble in cold water.
- VOC Content** : Theoretical VOC: 475 Grams per liter

**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 in order to avoid strong exothermic reactions: OXIDISING AGENTS, strong alkalis, strong acids.

**11. Toxicological information**

There are 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 is classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details.

Exposure to component solvents vapours concentration 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 kidney, 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. The liquid splashed in the eyes may cause irritation and reversible damage.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitiser and an irritant. It contains low molecular epoxy constituents which are irritating to eyes, mucous membrane and skin.

Repeated skin contact may lead to irritation and to sensitisation, possible with cross-sensitisation to other epoxies. Skin contact with the preparation and exposure to spray mist and vapour should be avoided.

## 12. Ecological information

There are 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.

### Ecotoxicity Data

<u>Ingredient Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
butanone	Daphnia magna (EC50)	48 hour(s)	5091 mg/l
	Pimephales promelas (LC50)	96 hour(s)	3220 mg/l
4-methylpentan-2-one	Scenedesmus subspicatus (EC50)	48 hour(s)	980 mg/l
	Scenedesmus subspicatus (EC50)	48 hour(s)	2000 mg/l
	Pimephales promelas (LC50)	96 hour(s)	505 mg/l
	Pimephales promelas (LC50)	96 hour(s)	537 mg/l
xylene	Pimephales promelas (LC50)	96 hour(s)	540 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	3.3 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	8.2 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	8.6 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	12 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	13.3 mg/l
	Pimephales promelas (LC50)	96 hour(s)	13.4 mg/l
	Pimephales promelas (EC50)	48 hour(s)	19 mg/l
n-butyl acetate	Pimephales promelas (LC50)	96 hour(s)	18 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	100 mg/l
	Daphnia magna (EC50)	48 hour(s)	1983 mg/l
butan-1-ol	Lepomis macrochirus (LC50)	96 hour(s)	100 mg/l
	Pimephales promelas (LC50)	96 hour(s)	1730 mg/l
	Pimephales promelas (LC50)	96 hour(s)	1910 mg/l
	Pimephales promelas (LC50)	96 hour(s)	1940 mg/l
	Pimephales promelas (LC50)	96 hour(s)	1940 mg/l
ethylbenzene	Daphnia magna (EC50)	48 hour(s)	2.93 mg/l
	Daphnia magna (EC50)	48 hour(s)	2.97 mg/l
	Selenastrum capricornutum (EC50)	48 hour(s)	7.2 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	4.2 mg/l
	Pimephales promelas (LC50)	96 hour(s)	9.09 mg/l
	Poecilia reticulata (LC50)	96 hour(s)	9.6 mg/l

## 13. Disposal considerations

Do not allow to enter drains or watercourses.  
Dispose of according to all federal, state and local applicable regulations.

**European Waste Catalogue (EWC)** : 08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS 08 01 02 waste paints and varnish free of halogenated solvents 08 01 99 wastes not otherwise specified

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

## 14. Transport information

### Land - Road/Railway

UN number : UN1263  
Transport document name : PAINT  
Special Provision 640 : D  
ADR/RID Class : 3  
Packing group : II  
ADR/RID label :



### Sea

UN number : UN1263  
Proper shipping name : PAINT  
IMDG Class : 3  
Packing group : II  
IMDG label :



Marine pollutant : No.  
Emergency Schedules (EmS) : F-E, S-E

### Air

UN number : UN1263  
Proper shipping name : PAINT  
ICAO/IATA Classification : 3  
Packing group : II  
ICAO/IATA label :



### Inland waterways

UN number : UN1263  
Proper shipping name : PAINT  
ADN Classification : 3  
Packing group : II  
ADN label :



## 15. Regulatory information

### EU Regulations

: The product is labelled as follows, in accordance with local regulations:

Hazard symbol(s) :



Highly flammable, Toxic, Dangerous for the environment

<b>Risk Phrases</b>	: R11- Highly flammable. R45- May cause cancer. R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R36- Irritating to eyes. R66- Repeated exposure may cause skin dryness or cracking. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Safety Phrases</b>	: S53- Avoid exposure - obtain special instructions before use. S16- Keep away from sources of ignition - No smoking. S23- Do not breathe vapor/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).
<b>Contains</b>	: Strontium chromate
<b>Additional Warning Phrases</b>	: Contains epoxy constituents. See information supplied by the manufacturer. This information is provided by the present Safety Data Sheet.
<b>Restriction to Market Directive</b>	: P99- Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use.
<b>EC Statistical Classification (Tariff Code)</b>	: 32089091

National regulations**16. Other information**

<b>CEPE Classification</b>	: 1
<b>Full text of R phrases referred to in Sections 2 and 3 - United Kingdom (UK)</b>	: R11- Highly flammable. R10- Flammable. R45- May cause cancer. R20- Harmful by inhalation. R20/21- Harmful by inhalation and in contact with skin. R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R22- Harmful if swallowed. R36- Irritating to eyes. R36/37- Irritating to eyes and respiratory system. R37/38- Irritating to respiratory system and skin. R38- Irritating to skin. R41- Risk of serious damage to eyes. 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

**Date of issue** : 05-02-2004.

Notice to Reader

*The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product : it is not to be considered as a guarantee of the products properties.*