



SAFETY DATA SHEET



PRODUCT LABEL

Labelling (usual or EU)

Symbols : None
 R Phrases : None
 S Phrases : None
 Transport Labelling : None

1.

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product name : ASPHALT REPAIR 5410.25
 Commercial Usage : **Asphalt for road repairs**
 Name/Corporate Name : **Rust-Oleum Netherlands B.V.- P.O. Box 138 - 4700 AC Roosendaal - The Netherlands**

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2.

COMPOSITION/INFORMATION ON THE CONSTITUENTS

Preparation

Chemical nature : Cationic aqueous bituminous emulsion fluidised with fluxes
 Constituents contributing towards dangers :

Dangerous constituents/components	CAS No.	EU danger symbols	EU Concentration risk phrases	Concentration
Xylene	1330-20-7	Xn, R	R10-38-20/21	0.36%

Impurities contributing towards dangers : None to our knowledge

3.

IDENTIFICATION OF THE MAIN DANGERS

Harmful effect on health : Under normal conditions of use, there is no danger of acute poisoning from this product. It does not irritate the eyes or the skin and should not have a sensitising effect.
 Effects on the environment : None to our knowledge under normal usage.
 Physical and chemical dangers : No particular risk of inflammation or explosion.
 Specific risks : Risk of skin irritation with prolonged exposure.
 Product classification : None in accordance with regulation 88/379/EEC amended.

4.

FIRST AID

Inhalation	:	In the event of exposure to high concentrations of fumes, smoke or aerosols, <i>due only to the product catching fire</i> , move the person into the open air, keep him warm and resting.
Contact with the skin	:	Take off the dirty clothes and wash them in fresh water for 15 minutes. If any irritation occurs, seek medical advice.
Contact with the eyes	:	Immediately wash with plenty of water for at least 15 minutes, whilst holding the eyelids open, and consult a specialist if there is any vision impairment, redness or pain.

5.

FIRE-FIGHTING MEASURES

Suitable extinguishers	:	Chemical foam, powder, CO ₂ .
Unsuitable extinguishers	:	Water jet
Specific dangers	:	Incomplete combustion and thermolysis produce gases which are toxic to a greater or lesser extent, such as CO, CO ₂ , various hydrocarbons, aldehydes ..., and soot. Their inhalation is very dangerous.
Protection of workers	:	It is obligatory to carry insulating breathing apparatus in confined environments because of the possibility of smoke and gas given off.

6.

MEASURES TO BE TAKEN IN THE EVENT OF ACCIDENTAL DISPERSAL

Individual precautions : Remove sources of ignition and ventilate the rooms. Avoid inhaling fumes. Wear glasses, protective gloves and protective clothing.

Precautions/Protection of the environment : Understand the systems and take all the measures necessary to avoid water and ground pollution. Protect the sewers by not pouring the product away, so as to minimise the risk of pollution.

Cleaning methods

- a) Recovery : Collect the product in a container for subsequent destruction in accordance with current regulations.
- b) Disposal : Recover the waste and dispose of it in accordance with current regulations.
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7.

HANDLING AND STORING

a) Handling

- Prevention of workers' exposure : Ensure sufficient ventilation. Keep combustible materials separately, keep the product away from food and drink.
- Prevention of fires and explosions : Handle away from any source of ignition or heat.
- Precautions : After contact with the skin, wash immediately with plenty of water. Do not eat, drink or smoke while the product is being moved or used. Avoid any build up of electrostatic charges.
- Advice for use : -

b) Storage:

- Technical measures : Product is stable under normal conditions of storage.
- Recommended storage conditions : To be kept in a temperature not exceeding 40 °C. Good ventilation of storage rooms.
- Unsuitable packing materials : Aluminium, copper, zinc and their alloys.
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8.

MONITORING OF INDIVIDUAL EXPOSURE/PROTECTION

Technical measures : Use the product in a well-ventilated environment. Maintain very strict body hygiene.

Inspection parameters

Maximum exposure limits in accordance with INRS ND 2098-174-99 and ND 2114-176-99

France (1330-20-7) : VME-ppm : 100
VME-mg/m³ : 435
VLE-ppm : 150
VLE-mg/m³ : 650

Germany (1330-20-7) : Category : II,1
MAK-ppm : 100
MAK-mg/m³ : 440
Notes : D,*

ACGTH (TLV) (1330-20-7) : TWA-ppm : 100
TWA-mg/m³ : 434
STEL-ppm : 150
STEL-mg/m³ : 651
Notes : A4 – S

Maximum exposure limits in accordance with 2000/39/CE and 98/24/CE

Skin : VME-ppm : 50
VME-mg/m³ : 221
VLE-ppm : 100
VLE-mg/m³ : 442

Individual protective equipment when product is being used

Hand protection : Infusible waterproof gloves, fire-resistant and resistant to hydrocarbon solvents

Eye protection : Glasses or facial screen.

Protection of the skin and body other than the hands : As required, facial screen, boots, clothing which is impermeable to hydrocarbons, safety footwear.

Hygiene measures : Ensure strict hygiene practices are followed by staff exposed to risk of contact with the product when it is removed from its packing.

9.

PHYSICAL AND CHEMICAL PROPERTIES

a) Aspect

Physical state : Solid
Colour : Black or Red
Odour : Characteristic
pH : not applicable

b) Specific temperatures at which its physical state changes

Flashpoint : None
Explosiveness characteristics : not applicable
Volume mass : The applied method is that which allows the relative density to be obtained i.e. about 2.

c) Solubility

In water : The bituminous emulsion can be mixed in water.

10.

STABILITY AND REACTIVITY

a) Stability : The product is stable in normal temperatures of storage, handling and use.

Dangerous reactions

a) *Conditions to avoid* : Sparks, ignition points. Flames and static electricity.

a) *Materials to avoid* : Strong oxidising agents.

Dangerous decomposition products : Incomplete combustion and thermolysis produce gases which are toxic to a greater or lesser extent, such as CO, CO₂, various hydrocarbons, aldehydes, ... and soot.

11.

TOXICOLOGY INFORMATION

According to the evaluation of the toxicological data of the constituents, the product should have the following characteristics in accordance with current regulations:

a) Acute Toxicity

Inhalation : Unlikely risk under normal conditions of use.

Contact with the skin : Not harmful

Ingestion : Digestive problems, abdominal pain, nausea, vomiting.

b) Localised effects

Inhalation : In a solid state, no effect.

Contact with the skin : Non irritant.

Contact with the eyes : High concentrations of fumes or aerosols could irritate the eyes.

c) Sensitising effect

Contact with the skin : Risk of irritation through prolonged contact.

d) Chronic or long-term toxicity

Inhalation : High concentrations of fumes or aerosols could irritate the airways and mucous membranes.

Contact with the skin : Risk of irritation through prolonged contact.

b) Specific effects

Carcinogenesis : According to studies available at the moment, there is no evidence that exposure to bitumen or its fumes presents any risk of cancer to people.

12.

ECOLOGICAL INFORMATION

Mobility

Ground : Taking into account its physical and chemical characteristics, the product does not move through the ground.

Water : The bituminous emulsion can be mixed in water.

13.

CONSIDERATIONS RELATING TO DISPOSAL

Waste, appropriate methods of disposal : Destroy in accordance with current local/national regulations.

Dirty packing, appropriate methods of disposal : Place in an agreed place for waste disposal.

14.
INFORMATION RELATING TO TRANSPORT

International regulations

By road : Not applicable
By sea : Not applicable
By air : Not applicable

15.
STATUTORY INFORMATION

EU regulations

EU labelling : None
Symbols : None
R Phrases : None
S phrases : None

16.
OTHER INFORMATION

Sheet issue date : November 2009
Cancels and replaces the sheet dated : October 2004

“This sheet completes the technical notices but does not replace them. The information that they contain is based on the limit of our knowledge relating to the product concerned, on the date indicated.

It is given in good faith. The attention of users is also drawn to any risks which may be incurred when a product is used for purposes other than those for which it was designed.

It does not in any way exempt the user from knowing and applying all the texts governing his work. It will be his sole responsibility to take the necessary precautions for the use he is making of the product.

All the regulatory instructions mentioned are simply provided with the aim of helping the addressee to fulfil the obligations for which he is responsible. This list cannot be considered as exhaustive. The addressee must ensure that there are no other obligations on him because of extra information which has not been stated.”