

**Safety data sheet**

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

Product name: **RELEST® Protect 352 2K-PUR-Guard**  
**grey 30KG**

Product code : **I352-0004 2300**

Printing date : 28.01.2016

Revision date : 29.04.2015

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**01 Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

RELEST® Protect 352 2K-PUR-Guard  
grey 30KG  
I352-0004 2300  
50214353

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Recommended use**

Industrial coatings

**1.3. Details of the supplier of the safety data sheet**

Glasurit GmbH  
Postfach 6123  
48136 Muenster  
Deutschland  
**E-mail address:**  
Product-Safety-Coatings@basf.com  
**Contact for further information:**  
+49/2501/143688

**1.4. Emergency telephone number**

+49 180 2273 112

**02 Section 2: Hazards Identification****2.1. Classification of the substance or mixture**

According to Regulation (EC) No 1272/2008 [CLP]

- Eye Dam./Irrit. 2, H319 Causes serious eye irritation.
- Skin Sens. 1A, H317 May cause an allergic skin reaction.
- STOT RE 2, H373 May cause damage to organs through prolonged or repeated exposure.
- Aquatic Chronic 2, H411 Toxic to aquatic life with long lasting effects.

**2.2. Label elements**

According to Regulation (EC) No 1272/2008 [CLP]

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Hazard pictogram:



Signal word:

Warning

Hazard statements:

H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P260 Do not breathe dust or mist.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

Hazard determining component(s) for labelling:

bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate  
diethyl toluene diamine

**2.3. Other hazards**

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

**03 Section 3: Composition/Information on Ingredients****3.1. Substances**

not applicable

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3**3.2. Mixtures**

Chemical nature

non drying oil, polyether, organic solvent, pigment

Hazardous ingredientsaccording to Regulation (EC) No 1272/2008

CAS No.	EC No.	Registration No.	INDEX No.
% (weight)			
Class, Category, Hazard Statement			

**diethyl toluene diamine**

68479-98-1 270-877-4 01-2119486805-25-XXXX 612-130-00-0

20,0 - &lt; 25,0

Acute Tox. 4, H302

Acute Tox. 4, H312

Eye Dam./Irrit. 2, H319

STOT RE 2, H373

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

**bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate**

41556-26-7 255-437-1 01-2119491304-40-XXXX

0,5 - &lt; 1,0

Skin Sens. 1A, H317

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

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

82919-37-7 280-060-4 01-2119491304-40-XXXX

0,2 - &lt; 0,3

Skin Sens. 1, H317

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

For the classifications not written out in full in this section the full text can be found in section 16.

**04 Section 4: First Aid Measures****4.1. 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.

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If inhaled

Remove immediately to fresh air, keep patient warm and at rest. Seek medical attention.

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.

**4.2. 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.

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available.

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**05 Section 5: Fire-Fighting Measures****5.1. 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

**5.2. 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.

**5.3. Advice for firefighters**

Special protective equipment

Appropriate breathing apparatus may be required.

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Additional information

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

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**06 Section 6: Accidental Release Measures****6.1. Personal precautions, protective equipment and emergency procedures****6.2. 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.

**6.3. 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.

**6.4. Reference to other sections**

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

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**07 Section 7: Handling and Storage****7.1. Precautions for safe handling**Instructions for Safe Handling

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.

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

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

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6**7.2. Conditions for safe storage, including any incompatibilities**Requirements for Storage Areas and Containers

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 : n.d.a.

**7.3. Specific end use(s)**

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

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**08 Section 8: Exposure Controls/personal protection****8.1. Control parameters****Occupational Exposure Limits**

n.a.

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 3 must be taken into account.

Components with DNEL

41556-26-7: bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

Application area: worker(Inhalation)

Potential health effect: Long-term exposure - systemic effects: 2,35 mg/m3

Application area: worker(Inhalation)

Potential health effect: Short-term exposure - systemic effects: 2,35 mg/m3

Application area: worker(dermal)

Potential health effect: Long-term exposure - systemic effects: 2,5 mg/kg bw/d

Application area: worker(dermal)

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7Potential health effect: Short-term exposure - systemic effects: 2,5 mg/kg  
bw/d

82919-37-7: methyl 1,2,2,6,6 pentamethyl-4-piperidyl sebacate

Application area: worker(Inhalation)

Potential health effect: Long-term exposure - systemic effects: 2,35 mg/m3

Application area: worker(Inhalation)

Potential health effect: Short-term exposure - systemic effects: 2,35 mg/m3

Application area: worker(dermal)

Potential health effect: Long-term exposure - systemic effects: 2,5 mg/kg  
bw/d

Application area: worker(dermal)

Potential health effect: Short-term exposure - systemic effects: 2,5 mg/kg  
bw/dComponents with PNEC41556-26-7: bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate  
water: 0,0022 mg/l82919-37-7: methyl 1,2,2,6,6 pentamethyl-4-piperidyl sebacate  
water: 0,0022 mg/l**8.2. Exposure controls****Appropriate engineering controls****Personal protective equipment**Respiratory Protection

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 AlP2 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. butyl rubber gloves

Material thickness: = 0,5 mm

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

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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.

**Environmental exposure controls**

See section 7 and 12

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**09 Section 9: Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

Physical state	: liquid
Colour	: grey
Odour	: specific
pH	: n.a.
Change in physical state	
Boiling temperature/range	: n.d.a.
Melting point/range	: n.d.a.
Flash point	: +200 °C ISO 3679
Ignition temperature	: > 200 °C
Explosion limits, lower	: n.a.
upper	: n.d.a.
Vapour pressure	: n.d.a.
Density	: 1,060 g/cm <sup>3</sup> at 20°C
Solubility in water	: immiscible



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9Viscosity : 684,3 mm<sup>2</sup>/s**9.2. Other information**

Flow time : =100/6 s at 20°C ISO 2431

**10 Section 10: Stability and Reactivity****10.1. Reactivity**

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

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

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

**10.4. Conditions to avoid**

Avoid all sources of ignition: heat, sparks, open flame.

**10.5. Incompatible materials**

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

**10.6. Hazardous decomposition products**

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

**11 Section 11: Toxicological Information****11.1. Information on toxicological effects**

The mixture has been assessed following regulation (EC) No 1272/2008. See sections 2 and 3 for details.

Acute toxicity

Based on available Data, the classification criteria are not met.

Skin corrosion/irritation

Based on available Data, the classification criteria are not met.

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10Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory sensitization/skin

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available Data, the classification criteria are not met.

Carcinogenicity

Based on available Data, the classification criteria are not met.

Toxicity for reproduction

Based on available Data, the classification criteria are not met.

Specific target organ toxicity - single exposure

Based on available Data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Based on available Data, the classification criteria are not met.

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**12 Section 12: Ecological Information**

There are no test results available for this product.

The mixture has been assessed following regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See sections 2 and 3 for details.

**12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

**12.2. Persistence and degradability**

n.d.a.

**12.3. Bioaccumulative potential**

n.d.a.

**12.4. Mobility in soil**

n.d.a.

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**12.5. Results of PBT and vPvB assessment**

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

**12.6. Other adverse effects**

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

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**13 Section 13: Disposal Considerations****13.1. 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

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**14 Section 14: Transport Information****14.1. UN number**

Transport by Road or Rail (ADR/RID):  
3082

Sea Transport (IMDG):  
3082

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Air Transport (IATA/ICAO):

3082

Inland waterway transport (ADN):

not evaluated

**14.2. UN proper shipping name**Transport by Road or Rail (ADR/RID):

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIETHYLMETHYLBENZENEDIAMINE)

Sea Transport (IMDG):

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIETHYLMETHYLBENZENEDIAMINE)

Air Transport (IATA/ICAO):

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIETHYLMETHYLBENZENEDIAMINE)

Inland waterway transport (ADN):

not evaluated

**14.3. Transport hazard class(es)**Transport by Road or Rail (ADR/RID):

9

Sea Transport (IMDG):

9

Air Transport (IATA/ICAO):

9

Inland waterway transport (ADN):

not evaluated

**14.4. Packing group**Transport by Road or Rail (ADR/RID):

III

Sea Transport (IMDG):

III

Air Transport (IATA/ICAO):

III

Inland waterway transport (ADN):

not evaluated

**14.5. Environmental hazards**

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13Transport by Road or Rail (ADR/RID):

ENVIRONMENTALLY HAZARDOUS

Sea Transport (IMDG):

Marine Pollutant (diethyltoluenediamine)

Inland waterway transport (ADN):

not evaluated

**14.6. Special precautions for user**Transport by Road or Rail (ADR/RID):

Tunnel code: E

Hazard number 90

Sea Transport (IMDG):

EMS-Nr: F-A, S-F

**14.7. Transport in bulk according to Annex II of MARPOL 73/78  
and the IBC Code**

not evaluated

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**15 Section 15: Regulatory Information****15.1. Safety, health and environmental regulations/legislation  
specific for the substance or mixture****Information pursuant to VOC Directive 1999/13/EC (for product as supplied)**

Volatile organic solvents: &lt; 1 %

VOC : &lt; 1 %

Volatile CMR substances : n.a.

**National Regulations****15.2. Chemical safety assessment**

Chemical Safety Assessment not required

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**16 Section 16: Other Information**

Restricted to professional users.

This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010.

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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.

Full text of hazard statements for components listed in section 2 and 3

**Acute Tox.**

Acute toxicity

**Aquatic Acute**

Hazardous to the aquatic environment - acute

**Aquatic Chronic**

Hazardous to the aquatic environment - chronic

**Eye Dam./Irrit.**

Serious eye damage/eye irritation

**STOT RE**

Specific target organ toxicity - repeated exposure

**Skin Sens.**

Skin sensitization

**H302**

Harmful if swallowed.

**H312**

Harmful in contact with skin.

**H317**

May cause an allergic skin reaction.

**H319**

Causes serious eye irritation.

**H373**

May cause damage to organs through prolonged or repeated exposure.

**H400**

Very toxic to aquatic life.

**H410**

Very toxic to aquatic life with long lasting effects.

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

**EUCLV** Indicative occupational exposure limit value according to Directive 98/24/EC - Ceiling Limit Value

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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.