



Printing date 27.09.2013 Version number 2 Revision: 27.09.2013

### 1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: RS62
- · Article number: PC 255(RS62)
- · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

NITROCHEMIE Wimmis AG

Niesenstrasse 44

CH 3752 Wimmis

· Further information obtainable from:

Dr. Kai Tölle

kai.toelle@nitrochemie.com

Sicherheit und Umwelt Wimmis (SUW)

· Emergency telephone number:

++41 33 228 1186 (Switzerland)

DOMESTIC NORTHAMERICA: 800-424-9300 INTERNATIONAL-CALL: 001-703-527-3887

### 2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS01 exploding bomb

Expl. 1.3 H203 Explosive; fire, blast or projection hazard.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



E; Explosive

R2: Risk of explosion by shock, friction, fire or other sources of ignition.

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

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- · Label elements
- · Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:

E Explosive

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- · Risk phrases:
- 2 Risk of explosion by shock, friction, fire or other sources of ignition.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- · Safety phrases:
- 15 Keep away from heat.
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:					
CAS: 9004-70-0	Nitrocellulose  ER1-3  Unst. Expl., H200	94%			
	DL-bornan-2-one  Xi R36/37/38; → F R11	4%			
CAS: 122-39-4 EINECS: 204-539-4	diphenylamine  ☐ T R23/24/25; ☐ N R50/53  R33  ♠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ♣ STOT RE 2, H373; ♠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1%			

· Additional information: For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

- · Description of first aid measures
- · General information:

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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### 5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

Water spray

Water

· For safety reasons unsuitable extinguishing agents:

Carbon dioxide

Sand

Extinguishing powder

Foam

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.

Remove persons from danger area.

 $\cdot \textit{Environmental precautions:}$ 

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling Open and handle receptacle with care.
- · Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

Protect from heat.

Prevent impact and friction.

- · Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles: storage facility for explosives
- · Information about storage in one common storage facility:

only storage facility for explosives

pay attention to the compatibility group

- · Further information about storage conditions: Protect from heat and direct sunlight.
- · Storage class: 1
- · Specific end use(s) No further relevant information available.

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### 8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

### 122-39-4 diphenylamine

WEL Short-term value: 20 mg/m³ Long-term value: 10 mg/m³

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Standarts of Personal Protective Equipment

Respiratory protection EN 136, 140, 149

Eye protection EN 166

Body protection EN 340, 463, 468, 943-1, 943-2

Protection of hands EN 374 Safety shoes EN-ISO 20345

- · Respiratory protection: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · Material of gloves

Nitrile rubber, NBR

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nomex

### · Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Nitrile rubber, NBR

Butyl rubber, BR

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR Nitrile rubber, NBR

 $\cdot$  **Eye protection:** Safety glasses





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Physical and chemical proper	rties
Information on basic physical and General Information	chemical properties
Appearance:	
Form:	Solid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	-
Melting point/Melting range:	-
Flash point:	-
Flammability (solid, gaseous):	Flammable.
Ignition temperature:	ca. 170 °C
Self-igniting:	Product is not selfigniting.
Danger of explosion:	sensitive to detonation blast (detonator) - Explosive with or with
	conact with air
	Risk of explosion by shock, friction, fire or other sources of ignition
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Density:	s PLB
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Insoluble.
Partition coefficient (n-octanol/wat	t <b>er):</b> Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Other information	No further relevant information available.

### 10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions

Flammable.

Danger of explosion.

· Conditions to avoid No further relevant information available.

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- · Incompatible materials: Oxidiser
- · Hazardous decomposition products: Nitrogen oxides

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

### 122-39-4 diphenylamine

Oral LD50 1230 mg/kg (mouse) 1120 mg/kg (rat)

Dermal LD50 >5000 mg/kg (rabbit)

- · Primary irritant effect:
- on the skin: No irritant effect.on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.

### 12 Ecological information

· Toxicity

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### 122-39-4 diphenylamine

EC50 4.76 mg/l (pho) EC50/24h 2.3 mg/l (D1) 1000 mg/l (psf)

IC50/72h 1.5 mg/l (desmodesmus subspicatus)

LC50/96h 3.79 mg/l (Pimephales promelas)

- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Harmful to aquatic organisms

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

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### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

Transport information	
UN-Number ADR, IMDG, IATA	UN0161
UN proper shipping name ADR IMDG, IATA	0161 TREIBLADUNGSPULVER POWDER, SMOKELESS
Transport hazard class(es)	
ADR	
Class	1 (1.3C) Explosive substances and articles.
Label	1
Class	1 Explosive substances and articles.
Label	1
Packing group ADR, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user Danger code (Kemler):	Warning: Explosive substances and articles. 1
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	0

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· UN ''Model Regulation'':

UN0161, POWDER, SMOKELESS, 1.3C (1), II

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:

E Explosive

- · Risk phrases:
  - Risk of explosion by shock, friction, fire or other sources of ignition.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- · Safety phrases:
- 15 Keep away from heat.
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- · National regulations:

	_
Class	Share in %
Ι	0.7

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### · Relevant phrases

H200	Unstable explosives.
H228	Flammable solid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritat

tion.

May cause damage to organs through prolonged or repeated exposure. H373 H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R1Explosive when dry. Highly flammable. R11

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

*R3* Extreme risk of explosion by shock, friction, fire or other sources of ignition.

R33 Danger of cumulative effects.

R36/37/38 Irritating to eyes, respiratory system and skin.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. (Contd. on page 9)





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· Department issuing MSDS: Abteilung Sicherheit und Umweltschutz

· Contact:

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· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

\* Data compared to the previous version altered.

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