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Version number 1

Revision: 05.07.2013

Product	identifier
	ame: RS30
• Article n • CAS Nu 9004-70 • Relevan No furth	<i>umber: Pc</i> 0263(<i>RS</i> 30) <i>mber:</i>
• Manufa NITROC Niesenst	of the supplier of the safety data sheet cturer/Supplier: HEMIE Wimmis AG rasse 44 ? Wimmis
Dr. Kai kai.toelle Sicherhe ++41 33 DOMES	information obtainable from: Fölle e@nitrochemie.com it und Umwelt Wimmis (SUW) icy telephone number: 228 1186 (Switzerland) TIC NORTHAMERICA : 800-424-9300 ATIONAL-CALL: 001-703-527-3887
Hazara	ls identification
· Classific	s identification ation of the substance or mixture ation according to Regulation (EC) No 1272/2008 GHS01 exploding bomb
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Classific Classific Expl. 1.3 Aquatic	ation of the substance or mixture ation according to Regulation (EC) No 1272/2008 GHS01 exploding bomb H203 Explosive; fire, blast or projection hazard. Chronic 3 H412 Harmful to aquatic life with long lasting effects. ation according to Directive 67/548/EEC or Directive 1999/45/EC
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Classific Classific Expl. 1.3 Aquatic Classific Expl. 1.3 Aquatic Classific E; R3: E; R3: Classific E; R3: Label eli Label elin The subs Hazard g Signal w Hazard s H203 Ex H412 Ha	 ation of the substance or mixture ation according to Regulation (EC) No 1272/2008 GHS01 exploding bomb H203 Explosive; fire, blast or projection hazard. Chronic 3 H412 Harmful to aquatic life with long lasting effects. ation according to Directive 67/548/EEC or Directive 1999/45/EC Explosive Extreme risk of explosion by shock, friction, fire or other sources of ignition. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment tion concerning particular hazards for human and environment: Not applicable.



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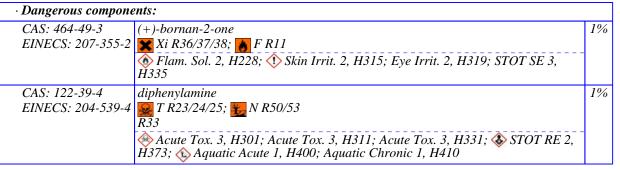
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- P281 Use personal protective equipment as required.
- P240 Ground/bond container and receiving equipment.
- *P373 DO NOT fight fire when fire reaches explosives.*
- P370+P380 In case of fire: Evacuate area.
- P372 Explosion risk in case of fire.
- P401 Store in accordance with local/regional/national/international regulations.
- *P501* Dispose of contents/container in accordance with local/regional/national/international regulations.
- Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 9004-70-0 Nitrocellulose
- · Identification number(s) -



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: Seek immediate medical advice.
- 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
- Water spray
- For safety reasons unsuitable extinguishing agents: Extinguishing powder Carbon dioxide Sand Foam
 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- **Protective equipment:** Wear self-contained respiratory protective device. Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing. Keep away from ignition sources. Mount respiratory protective device. Remove persons from danger area.
 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 against electrostatic charges. Prevent impact and friction. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- \cdot 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

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

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:



Protective gloves

Antistatic gloves

Strong material gloves

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

Butyl rubber, BR

Nitrile rubber, NBR

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. 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.

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(Contd. of page 4) · 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

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· For the permanent contact gloves made of the following materials are suitable: antistatic gloves (Nomex) over disposable gloves (nitrile or butylrubber)

• Eye protection: Safety glasses

· Body protection: use antistatic protective work clothing

Information on basic physical and	chemical properties
General Information	
Appearance:	
Form:	Powder
Colour:	Dark grey Characteristic
Odour: Odour threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	-
Flash point:	-
Ignition temperature:	ca. 170 °C
Danger of explosion:	sensitive to detonation blast (detonator) - Explosive with or withou conact with air Extreme risk of explosion by shock, friction, fire or other sources o ignition.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Density:	-
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Insoluble.
Partition coefficient (n-octanol/wat	t er): Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Other information	No further relevant information available.

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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.
- · Incompatible materials:

alkaline

- reducer Oxidiser
- Hazardous decomposition products: Poisonous gases/vapours
- Nitrogen oxides

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

Oral

· LD/LC50 values relevant for classification:

122-39-4 diphenylamine

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

	· Aquatic toxicity:			
ſ	122-39-4 d	liphenylamine		
ſ	EC50	4.76 mg/l (pho)		
EC50/24h 2.3 mg/l (D1)		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)		
	· Persistenc	e and degradability No further relevant information available.		
	· Behaviour	in environmental systems:		
	· Bioaccum	ulative potential No further relevant information available.		
	• Mobility in	a soil No further relevant information available.		
	Fastarian	1 offentes		

• Ecotoxical effects:

• **Remark:** Harmful to fish

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• 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.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. • European waste catalogue 160403

- · Uncleaned packaging:
- · Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

· UN-Number		
· ADR, IMDG, IATA	UN0161	
· UN proper shipping name		
·ADR	0161 TREIBLADUNGSPULVER	
· IMDG, IATA	POWDER, SMOKELESS	
· Transport hazard class(es)		
·ADR		
· Class · Label	1 (1.3C) Explosive substances and articles. 1.3C	
· IMDG, IATA		
· Label	1.3C	
· Packing group		



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· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Warning: Explosive substances and articles.
· Danger code (Kemler):	1
· EMS Number:	F- B , S - Y
• Transport in bulk according to Annex L MARPOL73/78 and the IBC Code	I of Not applicable.
· Transport/Additional information:	
· ADR	
· Tunnel restriction code	C5000D
· UN ''Model Regulation'':	UN0161, POWDER, SMOKELESS, 1.3C (1.3C), II

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture

- · Labelling according to Regulation (EC) No 1272/2008
- The substance is classified and labelled according to the CLP regulation.
- Hazard pictograms GHS01
- · Signal word Danger
- · Hazard statements

H203 Explosive; fire, blast or projection hazard.

H412 Harmful to aquatic life with long lasting effects.

- · Precautionary statements
- *P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.*
- P250 Do not subject to grinding/shock/friction.
- P281 Use personal protective equipment as required.
- P240 Ground/bond container and receiving equipment.
- *P373* DO NOT fight fire when fire reaches explosives.
- P370+P380 In case of fire: Evacuate area.
- P372 Explosion risk in case of fire.
- P401 Store in accordance with local/regional/national/international regulations.
- *P501* Dispose of contents/container in accordance with local/regional/national/international regulations.
- · 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

H228 Flammable solid.H301 Toxic if swallowed.

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Trade name: RS30 (Contd. of page 8) H311 Toxic in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation. 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. R11 Highly flammable. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R33 Danger of cumulative effects. R36/37/38 Irritating to eyes, respiratory system and skin. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Department issuing MSDS: Abteilung Sicherheit und Umweltschutz · Contact: Hr. Dr. Kai Tölle e-mail: kai.toelle@nitrochemie.com · 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) 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 \cdot * Data compared to the previous version altered. GR