according to UK REACH Regulation

	Novusan	
evision date: 19.05.2023	Product code: PES10124	98 Page 1 of
ECTION 1: Identification of	the substance/mixture and of the compa	ny/undertaking
<u>1. Product identifier</u> Novusan		
UFI:	UA2W-G3GN-6D8X-RM5P	
2. Relevant identified uses of t	he substance or mixture and uses advised a	igainst
Use of the substance/mixture Plating agent (VOC value:		
3. Details of the supplier of the	e safety data sheet	
Company name:	BKM.Mannesmann AG	
Street:	Wideystr. 23	
Place:	D-59174 Kamen	
Telephone:	+49 (0) 2307 9676 301	Telefax: +49 (0) 2307 9676 300
E-mail:	info@bkm-mannesmann.de	
Contact person:	Herr Oppel	
E-mail:	e.oppel@bkm-mannesmann.de	
Internet:	www.bkm-mannesmann.de	

2.1. Classification of the substance or mixture

GB CLP Regulation

Asp. Tox. 1; H304

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03 % aromatics Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

Signal word:

Pictograms:



Danger

Hazard statements

H304

May be fatal if swallowed and enters airways.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents / container in accordance with local regulations

Special labelling of certain mixtures

EUH066

Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name						
	EC No	Index No	REACH No				
	Classification (GB CLP Reg						
	Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03 % aromatics						
	934-956-3						
	Asp. Tox. 1; H304						
	Hydrocarbons, C14-C18, n-	45 - < 50 %					
	927-632-8		01-2119457736-27				
	Asp. Tox. 1; H304 EUH066						
67-56-1	methanol	< 0.1 %					
	200-659-6	603-001-00-X					
	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370						

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity			
	Specific Conc.	Limits, M-factors and ATE				
	934-956-3	Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03 % aromatics	45 - < 50 %			
	inhalation: LC50 = > 5266 mg/l (dusts or mists); dermal: LD50 = > 3160 mg/kg; oral: LD50 = > 5000 mg/kg					
	927-632-8	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2 % aromatics	45 - < 50 %			
	inhalation: LC5 5000 mg/kg	50 = > 5266 mg/l (dusts or mists); dermal: LD50 = > 3160 mg/kg; oral: LD50 = >				
67-56-1	200-659-6	methanol	< 0.1 %			
		E = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = l: ATE = 100 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 - <				

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. If unconscious but breathing normally, place in recovery position and seek medical advice.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately.

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4.2. Most important symptoms and effects, both acute and delayed

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

This material is combustible, but will not ignite readily.

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO2), Pyrolysis products, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Evacuate area.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment.

For emergency responders

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment

Stop leak if safe to do so. Cover drains.

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Ventilate affected area.

Other information

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

Use personal protection equipment.

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Advice on protection against fire and explosion

Usual measures for fire prevention.

Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed. Store in a dry place.

Hints on joint storage

Do not store together with: Oxidizing agents, strong. Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Protect from direct sunlight.

7.3. Specific end use(s)

Plating agent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
-	Cycloalkanes >= C7	-	800		TWA (8 h)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL
-	Normal and branched chain alkanes >= C7 (it excludes n-heptane)	-	1200		TWA (8 h)	WEL

8.2. Exposure controls





Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Use eye protection according to EN 166.

Hand protection

Wear suitable gloves tested to EN374.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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Novusan Revision date: 19.05.2023 Product code: PES1012498 Page 5 of 11 Skin protection Wear suitable protective clothing; Respiratory protection Respiratory			
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9.2. Other information Other safety characteristics		not determined	
Other safety characteristics	Particle characteristics:	not applicable	
	9.2. Other information		
	Other safety characteristics		
	Solvent content:	VOC value: 0 %	

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

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10.4. Conditions to avoid

UV-radiation/sunlight.

Keep away from sources of ignition - No smoking.

10.5. Incompatible materials

Oxidizing agents, strong.

NR (natural rubber, Natural latex), Butyl caoutchouc (butyl rubber), Styrene

10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
	Hydrocarbons, C15-C2	0, n-alkanes	, isoalkanes,	cyclics, < 0.03 % a	aromatics		
	oral	LD50 mg/kg	> 5000	Rat	Manufacturer	OECD 401	
	dermal	LD50 mg/kg	> 3160	Rabbit	Manufacturer	OECD 402	
	inhalation (4 h) dust/mist	LC50 mg/l	> 5266	Rat	Manufacturer	OECD 403	
	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2 % aromatics						
	oral	LD50 mg/kg	> 5000	Rat	Manufacturer	OECD 401	
	dermal	LD50 mg/kg	> 3160	Rabbit	Manufacturer	OECD 402	
	inhalation (4 h) dust/mist	LC50 mg/l	> 5266	Rat	Manufacturer	OECD 403	
67-56-1	methanol						
	oral	ATE mg/kg	100				
	dermal	ATE mg/kg	300				
	inhalation vapour	ATE	3 mg/l				
	inhalation dust/mist	ATE	0,5 mg/l				

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

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STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

May be fatal if swallowed and enters airways.

Information on likely routes of exposure

oral, Skin contact, Eye contact, Inhalation.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity

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

The product is not: Ecotoxic.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
	Hydrocarbons, C15-C20,	n-alkanes, is	soalkanes, cy	yclics, <	0.03 % aromatics		
	Acute fish toxicity	LC50 mg/l	> 1028	96 h	Scophthalmus maximus	Manufacturer	OECD 203
	Acute algae toxicity	ErC50 mg/l	> 10000	72 h	Skeletonema costatum	Manufacturer	ISO 10253
	Acute crustacea toxicity	EC50 mg/l	> 3193	48 h	Acartia tonsa	Manufacturer	ISO 14669
	Fish toxicity	NOEC mg/l	> 1000	28 d	Oncorhynchus mykiss (Rainbow trout)	Manufacturer	
	Crustacea toxicity	NOEC mg/l	> 1000	21 d	Daphnia magna (Big water flea)	Manufacturer	
	Hydrocarbons, C14-C18,	n-alkanes, is	soalkanes, cy	yclics, <	2 % aromatics		
	Acute fish toxicity	LC50 mg/l	> 1028	96 h	Scopthalmus maximus	Manufacturer	OECD 203
	Acute algae toxicity	ErC50 mg/l	> 3200	72 h	Skeletonema costatum	Manufacturer	ISO 10253
	Acute crustacea toxicity	EC50 mg/l	> 3193	48 h	Acartia tonsa	Manufacturer	ISO 14669
	Fish toxicity	NOEC mg/l	> 1000	28 d	Oncorhynchus mykiss (Rainbow trout)	Manufacturer	
	Crustacea toxicity	NOEC mg/l	> 1000	21 d	Daphnia magna (Big water flea)	Manufacturer	

12.2. Persistence and degradability

The product has not been tested. CAS No Chemical name Method Source Value d Evaluation Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03 % aromatics **OECD 306** 74 % 28 Manufacturer Readily biodegradable (according to OECD criteria) Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2 % aromatics 74 % Biodegradation 28 Manufacturer Readily biodegradable (according to OECD criteria)

according to UK REACH Regulation

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12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Marine transport (IMDG)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No
14.6. Special precautions for user No information available.	
14.7. Maritime transport in bulk according t not applicable	to IMO instruments

according to UK REACH Regulation

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

	EU regulatory information	
	Restrictions on use (REACH, annex XVII):	
	Entry 3, Entry 40, Entry 69, Entry 75	
	2010/75/EU (VOC):	0 %
	Information according to 2012/18/EU	Not subject to 2012/18/EU (SEVESO III)
	(SEVESO III):	
	National regulatory information	
	Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
	Water hazard class (D):	1 - slightly hazardous to water
	Additional information	
	Observe in addition any national regula	tions!
<u>15</u>	.2. Chemical safety assessment	
	Chemical safety assessments for substa	ances in this mixture were not carried out.

SECTION 16: Other information

according to UK REACH Regulation

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Abbreviations and acronyms	n and Daaka sing	
CLP: Classification, labelling		
-	uation and Authorization of Chemicals	
-	System of Classification, Labelling and Packaging of Chemicals	
UN: United Nations		
CAS: Chemical Abstracts S		
DNEL: Derived No Effect Le		
DMEL: Derived Minimal Effe		
PNEC: Predicted No Effect		
ATE: Acute toxicity estimate		
LC50: Lethal concentration,	, 50%	
LD50: Lethal dose, 50%		
LL50: Lethal loading, 50%		
EL50: Effect loading, 50%		
EC50: Effective Concentrat	ion 50%	
ErC50: Effective Concentra	tion 50%, growth rate	
NOEC: No Observed Effect	t Concentration	
BCF: Bio-concentration fact	tor	
PBT: persistent, bioaccumu	ılative, toxic	
vPvB: very persistent, very	bioaccumulative	
ADR: Accord européen sur	le transport des marchandises dangereuses par Route	
(European Agreement conc	cerning the International Carriage of Dangerous Goods by Road)	
RID: Regulations concernin	g the international carriage of dangerous goods by rail	
ADN: European Agreement	t concerning the International Carriage of Dangerous Goods by Inland Waterways	
(Accord européen relatif au	transport international des marchandises dangereuses par voies de navigation	
intérieures)		
-	ne Code for Dangerous Goods	
EmS: Emergency Schedule		
MFAG: Medical First Aid Gu		
IATA: International Air Tran	sport Association	
ICAO: International Civil Av		
	nvention for the Prevention of Marine Pollution from Ships	
IBC: Intermediate Bulk Con	•	
VOC: Volatile Organic Com	pounds	
SVHC: Substance of Very H		
-	nyms, see: ECHA Guidance on information requirements and chemical safety	
	(Table of terms and abbreviations).	
Flam. Liq: Flammable liquid		
Acute Tox: Acute toxicity		
Asp. Tox: Aspiration hazard	9	
	- rgan toxicity - single exposure	
	used evaluation method according to GB CLP Regulation	
Classification	Classification procedure	
Asp. Tox. 1; H304	Calculation method	

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of

according to UK REACH Regulation

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product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.			

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)