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SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- 1.1 Product identifier
- Trade name <u>Jowapur 686.20</u>
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- Application of the substance / the mixture Adhesives
- · Uses advised against Restricted to professional users.
- 1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier: JOWAT Swiss AG
 Chemische & Leimfabrik
 - CH 6033 Buchrain Tel.: +41 (0)41-445 1111 • **Department issuing data specification sheet:** Environmental management Tel. +49 5231 749 -5374 / -211 / -5460 / -5592
 - e-mail: umweltmanagement@jowat.de
 - Department providing the information: Jowat UK Ltd. Lymedale Business Centre Lymedale Business Park Hooters Hall Road Newcastle-under-Lyme Staffordshire ST5 9QF Phone: +44 1782 565265 E-mail: nick.orton@jowat.co.uk
- **1.4 Emergency telephone number:** Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

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



Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 2	H351 Suspected of causing cancer.
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.



Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.

· 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

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Hazard pictograms

· Signal word Danger

· Hazard-determining components of labelling: diphenylmethane diisocyanate

· Hazard statements

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
- Do not breathe dust/fume/gas/mist/vapours/spray. P260
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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

- If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P342+P311
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents / container to approved waste disposal or recycling in accordance with national regulations.

· Additional information:

Contains isocyanates. May produce an allergic reaction.

As from 24 August 2023 adequate training is required before industrial or professional use.

· 2.3 Other hazards

Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Adhesive. Isocyanate resin

 Dangerous components: 			
CAS: 26447-40-5	diphenylmethane diisocyanate	25-50%	
EINECS: 247-714-0	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;		
registration number:	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319;		
01-2119457024-46	Skin Sens. 1, H317; STOT SE 3, H335, EUH204		
01-2119457015-45	Specific concentration limits: Skin Irrit. 2; H315: $C \ge 5 \%$		
	Eye Irrit. 2; H319: C ≥ 5 %		
	Resp. Sens. 1; H334: C ≥ 0.1		
	%		
	STOT SE 3; H335: C ≥ 5 %		
CAS: 64742-47-8	Distillates (petroleum), hydrotreated light	1-<2.5%	
EC number: 920-107-4 registration number: 01- 2119453414-43	Asp. Tox. 1, H304, EUH066		

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· Additional information

If any R-phrases (risk-phrases) are listed, please refer for the exact wording to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- General information Instantly remove any clothing soiled by the product.
- After inhalation

Supply fresh air and contact physician for safety reasons.

- In case of unconsciousness bring patient into stable side position for transport.
- · After skin contact Instantly wash with water and soap and rinse thoroughly.
- · After eye contact
- Rinse opened eye for several minutes under running water. If symptoms persist, consult physician.
- After swallowing In case of persistent symptoms consult physician.
- 4.2 Most important symptoms and effects, both acute and delayed Asthma attacks
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media Suitable extinguishing agents
 - CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

Formation of poisonous gases during heating or in fires. Can be released in case of fire

Nitrogen oxides (NOx) Carbon monoxide (CO) Hydrogen cyanide (HCN)

5.3 Advice for firefighters

Protective equipment:
 Wear solf contained breathing

Wear self-contained breathing apparatus. Put on breathing apparatus.

Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.

6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

Prevent from spreading (e.g. by damming-in or oil barriers).

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

• **6.4 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 information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Extractors are required on all machines used for thermal processing. Store in cool, dry place in tightly closed containers. Prevent formation of aerosols. Use only in well ventilated areas.

Information about protection against explosions and fires: Keep breathing equipment ready.

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- · 7.2 Conditions for safe storage, including any incompatibilities · Storage
 - Requirements to be met by storerooms and containers: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions:
 - Keep container tightly sealed. Store under dry conditions.
 - Protect from humidity and keep away from water.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

- Components with critical values that require monitoring in the workplace:
- Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 Exposure controls
 - Appropriate engineering controls No further data; see section 7.
 - Additional information about design of technical systems: No further data; see section 7.
 - · Individual protection measures, such as personal protective equipment
 - General protective and hygienic measures
 - Standard precautionary measures for handling chemicals are to be observed.
 - Keep away from food, beverages and animal feed.
 - Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of work.

- Store protective clothing separately.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.
- Do not eat or drink while working.
- Breathing equipment:
- Use breathing protection in case of insufficient ventilation (EN 14387).
- Short term filter device:
- Filter A/B/P2.

In case of brief exposure or low pollution use breathing filter apparatus (EN 136). In case of intensive or longer exposure use breathing apparatus that is independent of circulating air (EN 137).

- Hand protection Impervious gloves (EN 374).
- Material of gloves Nitrile rubber, NBR
- Penetration time of glove material

The exact time limit until penetration has to be found out from the manufacturer of the protective gloves; please ensure that this value is not exceeded.

- Gloves made of the following material are suitable for the permanent contact with this material in work areas which do not have an above-average risk of injury (e.g. laboratories): PVC gloves
 PvC gloves
- Butyl rubber, BR

Fluorocarbon rubber (Viton)

- For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BR
- Fluorocarbon rubber (Viton)
- For permanent contact of max. 15 minutes, gloves made of the following materials are suitable:
- Nitrile rubber, NBR
- \cdot Not suitable are gloves made of the following materials:
- Leather gloves
- Strong gloves
- Eye/face protection
- Safety glasses recommended during refilling and spraying.

Safety glasses

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SECTION 9: Physical and chemical pro	(Cond. nom page
	•
9.1 Information on basic physical and chemica	al properties
General Information	
Physical state	Fluid
· Colour:	Light brown
[·] Smell:	Characteristic
· Odour threshold:	Not determined.
 Melting point/freezing point: 	Not determined
Boiling point or initial boiling point and bo	iling
range	>200 °C
· Flammability	Not applicable.
 Lower and upper explosion limit 	
Lower:	Not determined.
· Upper:	6.5 Vol %
Flash point:	>160 °C
Auto-ignition temperature:	485 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	Hot dotorrinnod.
· Kinematic viscosity	Not determined.
· dynamic at 20 °C:	8,400 mPas
	0,400 mPas
· Solubility	Not missible or difficult to mix
· Water:	Not miscible or difficult to mix
Partition coefficient n-octanol/water (log va	
Vapour pressure at 20 °C:	<0 hPa
• Density and/or relative density	
Density at 20 °C	1.15 g/cm ³
Relative density	Not determined.
· Vapour density	Not determined.
[•] 9.2 Other information	
· VOC - Volatile Organic Compounds	
· European Union	1.26 %
· Switzerland	0.20 %
 U.S.A (less water and less exempts) 	14.6 g/l / 0.12 lb/gal
Appearance:	
· Form:	Viscous
· Important information on protection of healt	h
and environment, and on safety.	
• Spontaneous combustion:	Product does not undergo spontaneous
	combustion.
• Explosive properties:	Product is not explosive.
· Solvent content:	
· Organic solvents:	1.3 %
· Solid content:	98.5 %
· Change in condition	00.0 /0
· Evaporation rate	Not determined.
•	
Information with regard to physical hazard	
classes	
· Explosives	not applicable
· Flammable gases	not applicable
· Aerosols	not applicable
	not applicable
Oxidising gases	
 Oxidising gases Gases under pressure 	
 Gases under pressure 	not applicable

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· Pyrophoric liquids	not applicable	
Pyrophoric solids	not applicable	
• Self-heating substances and mixtures	not applicable	
 Substances and mixtures, which emit 		
flammable gases in contact with water	not applicable	
· Oxidising liquids	not applicable	
Oxidising solids	not applicable	
· Organic peroxides	not applicable	
Corrosive to metals	not applicable	
Desensitised explosives	not applicable	

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

[·] 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions
- Reacts with water

Reacts with moist air

Reacts with strong acids and alkali

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised

• **10.4 Conditions to avoid** No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

Nitrous vitriol gases Hydrogen cyanide (prussic acid) Isocyanate Inflammable gases/vapours Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

	· LD/LC50 values that are relevant for classification:		
26447-40-5 diphenylmethane diisocyanate			
	Oral	LD50 oral	10,000 mg/kg (rat)
	Dermal	LD50 dermal	10,000 mg/kg (rabbit)

to the skin: Causes skin irritation.

• to the eye: Causes serious eye irritation.

· Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

• Carcinogenicity Suspected of causing cancer.

• STOT-single exposure May cause respiratory irritation.

• STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

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SECTION 12: Ecological information

· 12.1 Toxicity

Aquatic toxicity:

26447-40-5 diphenylmethane diisocyanate

LC0 >1,000 mg/l (zebrafish)

EC50 / 24 h >1,000 mg/l (water flea)

EC50 / 3 h >100 mg/l (pseudomonas putida)

• **12.2 Persistence and degradability** No further relevant information available.

• 12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

· Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow the product to reach ground water, open water or the sewer system, undiluted or in large quantites.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

Hand over to disposers of hazardous waste.

· Uncleaned containers/packaging material:

SECTION 14: Transport information

· Recommendation:

Packagings that cannot be cleaned are to be disposed of in the same manner as the product. Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

Packaging with cured adhesive residues can be recycled.

Packaging with cured adhesive residues can be treated as household waste.

Packaging with uncured adhesive residues must be disposed of as hazardous waste.

14.1 UN number or ID number ADR, ADN, IMDG, IATA	not applicable	
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	not applicable	
 14.3 Transport hazard class(es) 		
· ADR, ADN, IMDG, IATA		
· Class	not applicable	
· 14.4 Packing group		
· ADR, IMDĞ, IATA	not applicable	
· 14.5 Environmental hazards:		
· Marine pollutant:	No	

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 14.6 Special precautions for user 	Not applicable.		
· 14.7 Maritime transport in bulk according to IMO			
instruments	Not applicable.		
· UN "Model Regulation":	not applicable		

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

These data are based on our present knowledge. They shall, however, not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

All standard industrial precautions apply, concerning protection of health, and safe handling. The recommendations have to be examined in the context of the application for which the product is intended, and observed as necessary.

Relevant phrases

- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- May cause damage to organs through prolonged or repeated exposure. H373

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH204 Contains isocyanates. May produce an allergic reaction.

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 Organisation

ADR: Accord relatif au transport international 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 Harmonised 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
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Acute toxicity Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation Category 2
- Resp. Sens. 1: Respiratory sensitisation Category 1
- Skin Sens. 1: Skin sensitisation Category 1
- Carc. 2: Carcinogenicity Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) Category 2
- Asp. Tox. 1: Aspiration hazard Category 1
- * Data modified in comparison to the previous version.

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Annex: Exposure scenario 1

Process category

PROC14 Tabletting, compression, extrusion, pelletisation, granulation

PROC21 Low energy manipulation and handling of substances bound in/on materials or articles Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

• Conditions of use Customary application according to section 1.

• Duration and frequency 8hrs (full working shift).

Physical parameters

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

· Concentration of the substance in the mixture The substance is main component.

· Used amount per time or activity 33333 tons per day

Other operational conditions Observe the standard safety regulations when handling chemicals Other operational conditions affecting environmental exposure

The product must not get in contact with soil, surface water and ground water before complete hardening.

Observe section 6 of the Safety Data Sheet (Accidental release measures).

High temperatures promote emission.

Other operational conditions affecting worker exposure

Avoid long-term or repeated skin contact.

Avoid contact with the skin and eyes.

Respiratory protection is required in work areas with inadequate ventilation and during spraying application.

Ensure adequate ventilation, especially in closed rooms.

Avoid contact with eyes.

Avoid contact with the skin.

Avoid breathing particles.

- · Other operational conditions affecting consumer exposure No special measures required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.

Risk management measures

• Worker protection

Instantly remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· Organisational protective measures Provide Internal Plant Instruction.

Technical protective measures

Ensure that suitable extractors are available on processing machines.

· Personal protective measures

Use breathing protection in case of insufficient ventilation (EN 149).

Use breathing protection in case of insufficient ventilation (EN 14387). Filter A/B/P2.

In case of brief exposure or low pollution use breathing filter apparatus (EN 136). In case of intensive or longer exposure use breathing apparatus that is independent of circulating air (EN 137). Heat resistant gloves

Impervious gloves (EN 374).

• Measures for consumer protection Ensure adequate labelling.

· Environmental protection measures

- · Air No special measures required.
- · Water Do not allow to reach sewage system.
- · Soil No special measures required.
- Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.
- **Disposal measures** Ensure that waste is collected and contained.

· Disposal procedures

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

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· Waste type

Partially emptied and uncleaned packaging

Solid product residues

• Exposure estimation

· Worker (oral) No significant oral exposure

Worker (dermal) No significant dermal exposure

• Worker (inhalation) The calculated value is smaller than the DNEL.

• Environment The calculated value is smaller than the PNEC.

· **Consumer** Not relevant for this Exposure Scenario.

• Guidance for downstream users No further relevant information available.

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Annex: Exposure scenario 2

Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) • Process category

PROC11 Non industrial spraying

PROC14 Tabletting, compression, extrusion, pelletisation, granulation

PROC21 Low energy manipulation and handling of substances bound in/on materials or articles

- Environmental release category
- ERC8c Widespread use leading to inclusion into/onto article (indoor)

ERC8f Widespread use leading to inclusion into/onto article (outdoor)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

• Conditions of use Customary application according to section 1.

- · Duration and frequency 8hrs (full working shift).
- · Worker 8hrs (full working shift).
- Physical parameters

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

- · Physical state Solid.
- · Concentration of the substance in the mixture The substance is main component.
- · Used amount per time or activity 600 kg per day

· Other operational conditions Observe the standard safety regulations when handling chemicals

Other operational conditions affecting environmental exposure

The product must not get in contact with soil, surface water and ground water before complete hardening.

Other operational conditions affecting worker exposure

Indoor application.

Outdoor application.

Avoid contact with eyes.

Avoid contact with the skin.

Avoid long-term or repeated skin contact.

Avoid breathing particles.

- Other operational conditions affecting consumer exposure Not required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.

Risk management measures

Worker protection

Instantly remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · Organisational protective measures Provide Internal Plant Instruction.
- · Technical protective measures

Ensure that suitable extractors are available on processing machines.

· Personal protective measures

Use breathing protection in case of insufficient ventilation (EN 14387). Filter A/B/P2.

In case of brief exposure or low pollution use breathing filter apparatus (EN 136). In case of intensive or longer exposure use breathing apparatus that is independent of circulating air (EN 137). Impervious gloves (EN 374).

· Measures for consumer protection Ensure adequate labelling.

- Environmental protection measures
- · Air No special measures required.
- · Water
- Do not allow to reach ground water, water bodies or sewage system, not even in small quantities. **Soil** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.

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Disposal procedures

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

Waste type

Solid product residues

Partially emptied and uncleaned packaging

Exposure estimation

- · Worker (oral) No significant oral exposure
- Worker (inhalation) The calculated value is smaller than the DNEL.
- Environment The calculated value is smaller than the PNEC.
- · Consumer Not relevant for this Exposure Scenario.

• Guidance for downstream users No further relevant information available.