Hranipur SPEED

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 12/16/2020 Revision date: 11/8/2022 Supersedes version of: 3/1/2022 Version: 1.2

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

1.1. Product identifier

Product form : Mixture
Product name : Hranipur SPEED
UFI : EP33-Q0QD-600N-NAPS

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only
Use of the substance/mixture : Adhesives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor
Hranipex Czech Republic k.s.
J. Rýznerové 97, Komorovice
CZ– 396 01 Humpolec
Czech Republic
T 565 501 210
hranipex@hranipex.cz - www.hranipex.cz
E-mail address of competent person responsible for the SDS :
sds@regartis.com

Supplier
Hranipex Ltd.
Unit 2 Radial Park, Birmingham Business Park
Birmingham, B37 7YN
United Kingdom
T 0121 767 9180 - F 0121 782 6250
hranipex@hranipex.co.uk - www.hranipex.co.uk

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX Cardiff	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB Newcastle	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Respiratory sensitisation, Category 1 H334

Skin sensitisation, Category 1	H317
Carcinogenicity, Category 2	H351
Reproductive toxicity, Category 1B	H360
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity – Repeated exposure, Category 2	H373

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

Adverse physicochemical, human health and environmental effects

Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May damage fertility or the unborn child.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS05 GHS07 GHS08

Signal word (CLP) : Danger

Contains : Diphenylmethanediisocyanate, isomers and homologues, calcium oxide, 1-ethylpyrrolidin-2-one

Hazard statements (CLP) : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 - May cause respiratory irritation.
H351 - Suspected of causing cancer.
H360 - May damage fertility or the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure (respiratory system).

Precautionary statements (CLP) : P201 - Obtain special instructions before use.
P261 - Avoid breathing vapours.
P280 - Wear protective gloves, eye protection, face protection.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor.
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

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

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Diphenylmethanediisocyanate, isomers and homologues	CAS-No.: 9016-87-9 EC-No.: 618-498-9	10 – 30	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Calcium carbonate	CAS-No.: 1317-65-3 EC-No.: 215-279-6	10 – 30	Not classified
Calcium carbonate	CAS-No.: 471-34-1 EC-No.: 207-439-9 REACH-no: 01-2119486795-18	10 – 30	Not classified
2,2'-dimorpholinyldiethyl ether	CAS-No.: 6425-39-4 EC-No.: 229-194-7 REACH-no: 01-2119969278-20	1 – 5	Eye Irrit. 2, H319
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2%	EC-No.: 926-141-6 REACH-no: 01-2119456620-43	1 – 5	Asp. Tox. 1, H304 EUH066
1-ethylpyrrolidin-2-one	CAS-No.: 2687-91-4 EC-No.: 220-250-6 EC Index-No.: 616-208-00-5 REACH-no: 01-2119472138-36	< 3	Eye Dam. 1, H318 Repr. 1B, H360D
calcium oxide	CAS-No.: 1305-78-8 EC-No.: 215-138-9 REACH-no: 01-2119475325-36	< 2	Skin Corr. 1C, H314 Eye Dam. 1, H318 EUH071

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Immediately remove contaminated clothing or footwear. IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep them warm and calm. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation : May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Symptoms include: Cough. Runny nose. Headache. Shortness of breath.

Symptoms/effects after skin contact : May cause an allergic skin reaction. irritation (itching, redness, blistering). Swelling of the skin.

Symptoms/effects after eye contact	:	Serious damage to eyes.
Symptoms/effects after ingestion	:	Irritation, nausea. Abdominal pain. Diarrhea.
Chronic symptoms	:	Causes damage to organs through prolonged or repeated exposure.

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	:	Use extinguishing media appropriate for surrounding fire. Foam. Water.
Unsuitable extinguishing media	:	Not specified.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	:	On burning: release of carbon monoxide - carbon dioxide, nitrogen oxides, hydrogen chloride, hydrogen cyanide, isocyanates.

5.3. Advice for firefighters

Protection during firefighting	:	Do not attempt to take action without suitable protective equipment. Positive pressure self-contained breathing apparatus (SCBA) and structural fire-fighters protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	:	Ventilate spillage area. Do not breathe vapours, mist, spray. Avoid contact with skin and eyes. Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment	:	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	:	Flush/dilute with water. Take up liquid spill into absorbent material. Pick up mechanically. Collect all waste in suitable and labelled containers and dispose according to local legislation. Notify authorities if product enters sewers or public waters.
Other information	:	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Handle carefully. Wear personal protective equipment. Do not breathe vapours. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
Hygiene measures	:	Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Protect from moisture. Store locked up.

Incompatible products : Store away from oxidation agents. Acids. Amines.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

calcium oxide (1305-78-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Calcium oxide
IOEL TWA	1 mg/m³ (Respirable fraction)
IOEL STEL	4 mg/m³ (Respirable fraction)
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
United Kingdom - Occupational Exposure Limits	
Local name	Calcium oxide
WEL TWA (OEL TWA) [1]	2 mg/m³ 1 mg/m³ Respirable fraction
WEL STEL (OEL STEL)	4 mg/m³ Respirable fraction
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Calcium carbonate (1317-65-3)	
United Kingdom - Occupational Exposure Limits	
Local name	Calcium carbonate (Limestone, Marble)
WEL TWA (OEL TWA) [1]	10 mg/m³ total inhalable 4 mg/m³ respirable
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Apply technical measures to comply with the occupational exposure limits. . Ventilation, local exhaust, or breathing protection.

8.2.2. Personal protection equipment

Personal protective equipment:
Avoid all unnecessary exposure. Wear recommended personal protective equipment.

8.2.2.1. Eye and face protection

Eye protection:
Face shield. Safety glasses with side shields. EN 166

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable coveralls to prevent exposure to the skin

Hand protection:
Chemical resistant gloves (according to European standard EN 374 or equivalent). The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Recommended materials: Polymer laminate gloves

8.2.2.3. Respiratory protection

Respiratory protection:
[In case of inadequate ventilation] wear respiratory protection. Use a respirator corresponding to the technical standard EN 140 or EN 136 with a filter type A and P

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

Consumer exposure controls:
Do not breathe vapour/aerosol. Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Beige.
Appearance	:	Paste.
Odour	:	Odourless.
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not applicable
Explosion limits	:	Not available
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	≥ 70 °C
Auto-ignition temperature	:	Not self-igniting
Decomposition temperature	:	Not available
pH	:	Not available
Viscosity, kinematic	:	285714.285 mm²/s
Solubility	:	Insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	1.4
Relative vapour density at 20°C	:	Not available
Particle characteristics	:	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts with : Acids. Amines. alcohols. Reacts on contact with water releasing carbon dioxide (CO2). pressure rise and possible bursting of container.

10.4. Conditions to avoid

Avoid high temperatures.

10.5. Incompatible materials

Acids. Amines. Alcohols. Water.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Hranipur SPEED	
ATE CLP (oral)	5000 mg/kg
ATE CLP (dermal)	5000 mg/kg
ATE CLP (vapours)	50 mg/l

Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)	
LD50 oral rat	31600 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	0.368 mg/l/4h

2,2'-dimorpholinyldiethyl ether (6425-39-4)	
LD50 oral rat	2020 mg/kg
LD50 dermal rabbit	3030 mg/kg

calcium oxide (1305-78-8)	
LD50 oral rat	> 2500 mg/kg

calcium oxide (1305-78-8)	
LD50 oral	> 2500 mg/kg

Calcium carbonate (1317-65-3)	
LD50 oral rat	6450 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	3 mg/l/4h

Calcium carbonate (471-34-1)	
LD50 oral rat	6450 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	3 mg/l/4h

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2%	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat (Vapours)	20 - 50 mg/l

1-ethylpyrrolidin-2-one (2687-91-4)	
LD50 oral rat	3200 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat (Vapours)	> 5.1 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : May damage fertility or the unborn child.

Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)	
NOAEL (animal/male, F0/P)	0.004 mg/kg

2,2'-dimorpholinyldiethyl ether (6425-39-4)	
NOAEL (animal/male, F0/P)	300 mg/kg

Calcium carbonate (1317-65-3)	
NOAEL (animal/male, F0/P)	625 mg/kg

Calcium carbonate (471-34-1)	
NOAEL (animal/male, F0/P)	625 mg/kg

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2%	
NOAEL (animal/female, F0/P)	≥ 5220 mg/kg Inhalation, Rat REACH dossier
NOAEL (animal/male, F1)	750 mg/kg Fertility, One-generation study - Oral, Rat F1 REACH dossier information.

1-ethylpyrrolidin-2-one (2687-91-4)	
NOAEL (animal/male, F0/P)	300 mg/kg
NOAEL (animal/female, F0/P)	400 mg/kg

STOT-single exposure : May cause respiratory irritation.

Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)	
STOT-single exposure	May cause respiratory irritation.

Calcium carbonate (471-34-1)	
NOAEC (inhalation, rat, dust/mist/fume)	0.812 mg/l

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure (respiratory system).

Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)	
LOAEC (inhalation, rat,dust/mist/fume, 90 days)	0.004 mg/l
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

2,2'-dimorpholinyldiethyl ether (6425-39-4)	
NOAEL (subacute, oral, animal/male, 28 days)	300 mg/kg bodyweight

1-ethylpyrrolidin-2-one (2687-91-4)	
NOAEC (inhalation, rat, vapour, 90 days)	0.2 mg/l
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.06 mg/l

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Hranipur SPEED	
Viscosity, kinematic	285714.285 mm²/s

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long–term (chronic) : Not classified (Based on available data, the classification criteria are not met)

Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)	
EC50 - Crustacea [1]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l

2,2'-dimorpholinyldiethyl ether (6425-39-4)	
LC50 - Fish [1]	> 2150 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l

calcium oxide (1305-78-8)	
LC50 - Fish [1]	1070 mg/l

Calcium carbonate (1317-65-3)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l

Calcium carbonate (471-34-1)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2%	
LC50 - Fish [1]	> 1000 mg/l
EC50 - Crustacea [1]	> 1000 mg/l
EC50 72h - Algae [1]	> 1000 mg/l

1-ethylpyrrolidin-2-one (2687-91-4)	
LC50 - Fish [1]	> 464 mg/l
EC50 - Crustacea [1]	> 104 mg/l
EC50 72h - Algae [1]	> 101 mg/l
NOEC chronic crustacea	12.5 mg/l Daphnia manga
NOEC chronic algae	101 mg/l

12.2. Persistence and degradability

Hranipur SPEED	
Persistence and degradability	No additional information available.

Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)	
BOD (% of ThOD)	0 % ThOD

2,2'-dimorpholinyldiethyl ether (6425-39-4)	
Biodegradation	1 % OECD 301C - MITI (I)

Calcium carbonate (1317-65-3)	
Persistence and degradability	not relevant - inorganic substance.

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2%	
BOD (% of ThOD)	69 % ThOD

1-ethylpyrrolidin-2-one (2687-91-4)	
Biodegradation	90 – 100 % OECD 301A

12.3. Bioaccumulative potential

Hranipur SPEED	
Bioaccumulative potential	No additional information available.

Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)	
Bioconcentration factor (BCF REACH)	200

2,2'-dimorpholinyldiethyl ether (6425-39-4)	
Bioconcentration factor (BCF REACH)	≤ 3.1 OECD 305E

Calcium carbonate (1317-65-3)	
Bioaccumulative potential	No additional information available.

1-ethylpyrrolidin-2-one (2687-91-4)	
Partition coefficient n-octanol/water (Log Pow)	-0.2

12.4. Mobility in soil

Hranipur SPEED	
Ecology - soil	No additional information available.

Calcium carbonate (1317-65-3)	
Mobility in soil	No additional information available

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2%	
Mobility in soil	The product is very slightly soluble in water.
Surface tension	26.4 mN/m (25 °C)

12.5. Results of PBT and vPvB assessment

Hranipur SPEED
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

Other adverse effects : No other effects known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose in accordance with corresponding regulations. Disposal of defect or damaged product is performed in accordance with instruction from manufacturer or in accordance with local regulation. Disposal may be performed only by the authorized person. For the classification of waste and its removal corresponding to the waste producer. Handle uncleaned empty containers as full ones.

Additional information : Beware of residues or vapours which remain in the drums.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport
Not applicable

Transport by sea
Not applicable

Air transport
Not applicable

Inland waterway transport
Not applicable

Rail transport
Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP)

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	**Applicable on**
3(b)	Hranipur SPEED ; Diphenylmethanediisocyanate, isomers and homologues ; 2,2'-dimorpholinyldiethyl ether ; Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% ; 1-ethylpyrrolidin-2-one
30.	1-ethylpyrrolidin-2-one

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

United Kingdom

British National Regulations : Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives, in the valid wording.
Regulation (EC) No 1013/2006 of the European Parliament and of the Council on shipments of waste, in the valid wording.
UK Waste Regulations.
UK REACH
GB CLP

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
	Revision date	Modified	
	Supersedes	Modified	
2.2	Precautionary statements (CLP)	Modified	
4.1	First-aid measures after ingestion	Modified	
4.1	First-aid measures after eye contact	Modified	
4.1	First-aid measures after inhalation	Modified	
6.1	Emergency procedures	Modified	

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
6.3	Other information	Modified	
6.3	Methods for cleaning up	Modified	
6.4	Reference to other sections (8, 13)	Modified	
7.2	Incompatible products	Added	
7.2	Storage conditions	Modified	
8.2	Hand protection	Modified	
9.1	Viscosity, kinematic	Added	
9.1	Solubility	Modified	
10.3	Possibility of hazardous reactions	Modified	
10.4	Conditions to avoid	Modified	
10.5	Incompatible materials	Modified	
13.1	Product/Packaging disposal recommendations	Modified	

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit

Abbreviations and acronyms:	
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Data sources : ECHA Guidance on the compilation of safety data sheets
ECHA C&L Inventory database. Supplier's safety documents.

Training advice : Provide SDS to employees. Follow general rules on handling chemical substances and/or mixtures. Safety training for chemicals handling.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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.
H360	May damage fertility or the unborn child.
H360D	May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
Repr. 1B	Reproductive toxicity, Category 1B
Resp. Sens. 1	Respiratory sensitisation, Category 1

Full text of H- and EUH-statements:	
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
Repr. 1B	H360	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.