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MATERIAL SAFETY DATA SHEET

TOLUENE DI ISOCYNATE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name :Toluene Diisocyanate 80.20 (TDI 80.20)
Name :m-tolylidene diisocyanate (CAS: 26471-62-5, EC: 247-722-4, Index: 615-006-00-4)
Product code :[100120]

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

Relevant identified uses :Raw material for the industry.
Uses advised against :No information.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

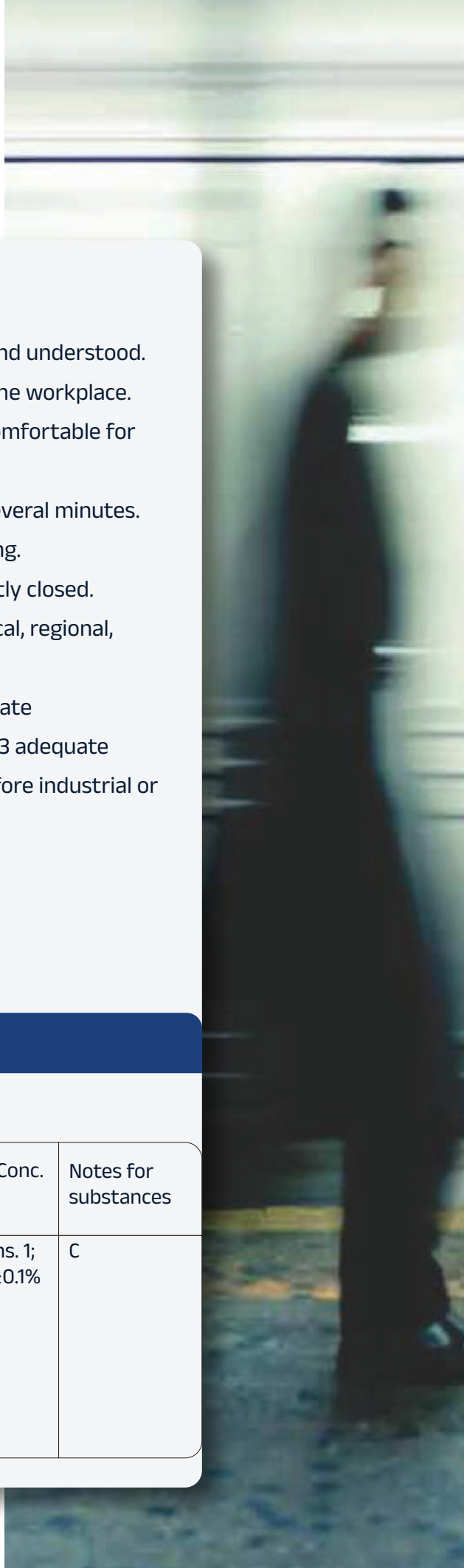
Skin Irrit. 2; H315 Causes skin irritation.
Skin Sens. 1; H317 May cause an allergic skin reaction.
Eye Irrit. 2; H319 Causes serious eye irritation.
Acute Tox. 2; H330 Fatal if inhaled.
Resp. Sens. 1; H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT SE 3; H335 May cause respiratory irritation.
Carc. 2; H351 Suspected of causing cancer.
Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Signal word: DANGER

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.



H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

P202 Do not handle until all safety precautions have been read and understood.

P272 Contaminated work clothing should not be allowed out of the workplace.

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.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

Contains :m-tolylidene diisocyanate

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

2.3 Other hazards

PBT/vPvB :No information.

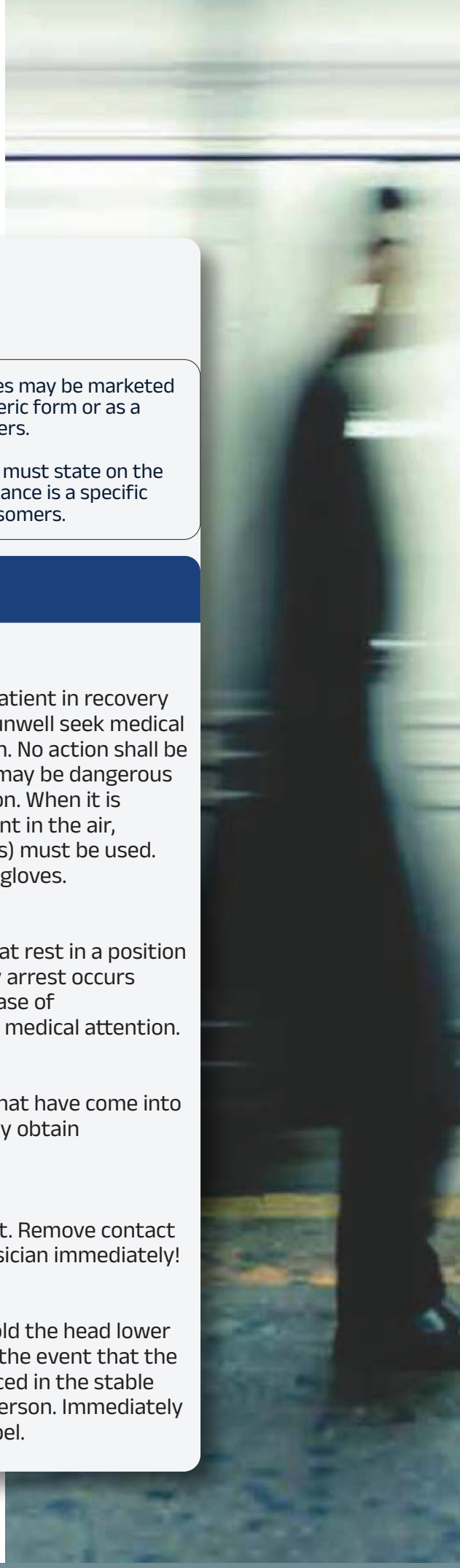
Endocrine disrupting properties :No information.

Additional information :No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	Notes for substances
m-tolylidene diisocyanate	26471-62-5 247-722-4 615-006-00-4	20-80	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Acute Tox. 2; H330 Resp. Sens. 1; H334 STOT SE 3; H335 Carc. 2; H351 Aquatic Chronic 3; H412	Resp. Sens. 1; H334; C ≥0.1%	C



3.2 Mixtures

For substances see 3.1.

Notes for substances

C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. Wash contaminated clothing with water before removing or use gloves.

Following inhalation

Remove patient to fresh air - move out of dangerous area. Keep at rest in a position comfortable for breathing. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Seek medical help immediately. In case of unconsciousness bring patient into stable side position and seek medical attention.

Following skin contact

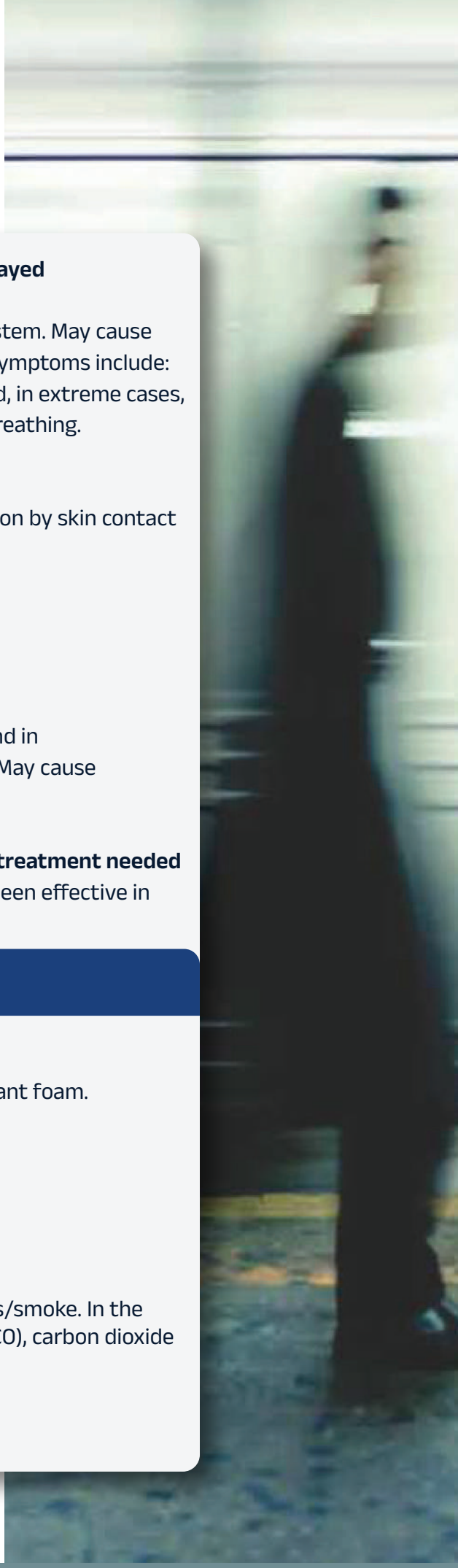
Immediately remove contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. Immediately obtain professional medical help!

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician immediately!

Following ingestion

Do not induce vomiting! If vomiting occurs, the patient should hold the head lower than the hips, because it reduces the possibility of aspiration. In the event that the victim is lying on the back during vomiting, he/she should be placed in the stable side position. Never give anything by mouth to an unconscious person. Immediately consult a doctor. Show the physician the safety data sheet or label.



4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Can cause death if inhaled. Can cause irritation of respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled Symptoms include: headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Coughing, sneezing, nasal discharge, labored breathing.

Following skin contact

Irritating to the skin. Itching, redness, pain. May cause sensitisation by skin contact (itching, redness, rashes).

Following eye contact

Causes severe eye irritation. Redness, tearing, pain.

Following ingestion

Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area. May cause nausea/vomiting and diarrhea. May cause abdominal discomfort.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Application of corticosteroid cream has been effective in treating skin irritation.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam. Limestone powder.

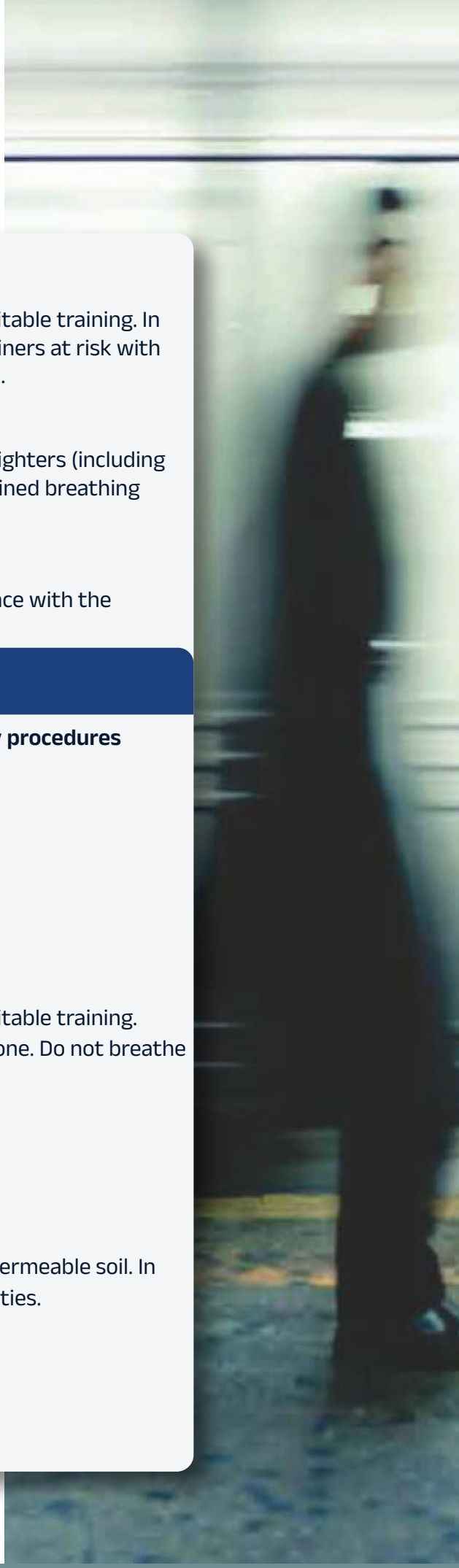
Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO2).
Isocyanates. Burning produces noxious and toxic fumes
Hydrogen cyanide (hydrocyanic acid).
Nitriles. Phosgene.



5.3 Advice for firefighters

Protective actions

No action shall be taken involving any personal risk or without suitable training. In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Precautionary measures

Ensure adequate ventilation.

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

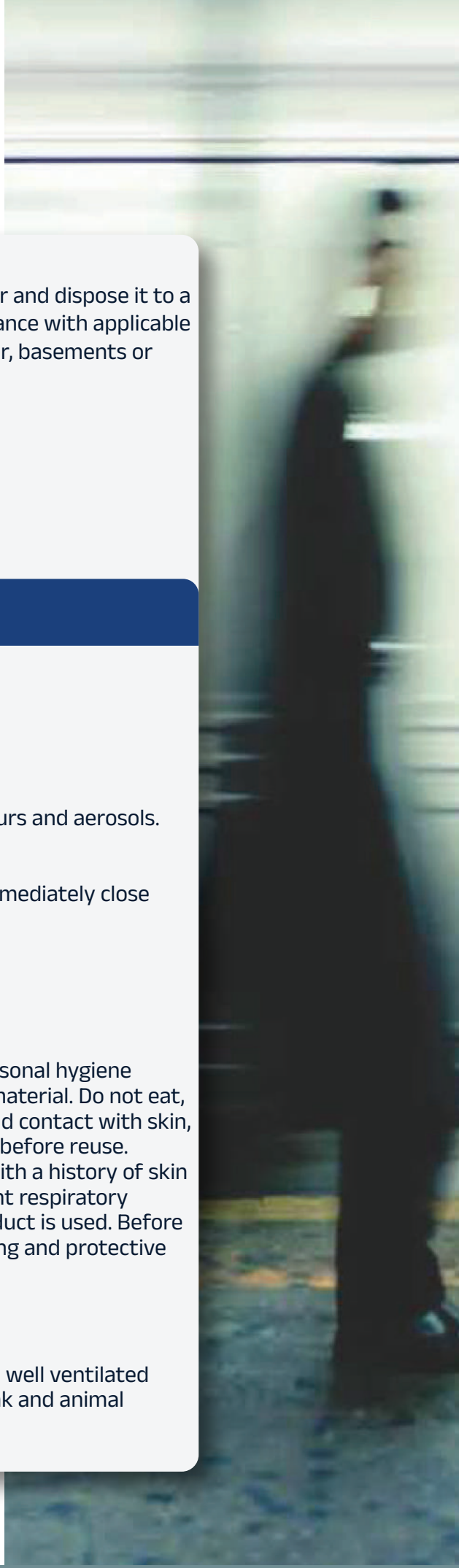
6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.



For cleaning up
Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Dispose in accordance with applicable regulations (see Section 13). Prevent release into the sewer, water, basements or confined areas. Ventilate the premises.

OTHER INFORMATION
No information.

6.4 Reference to other sections
See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Protective measures
Measures to prevent fire
Ensure adequate ventilation.

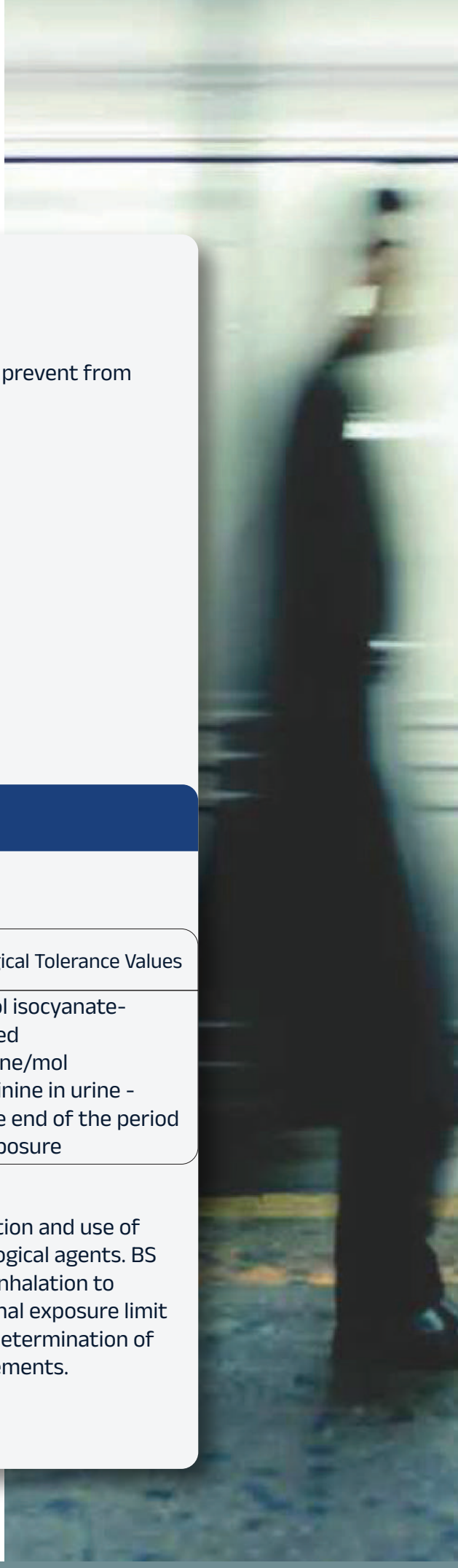
Measures to prevent aerosol and dust generation
Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment
Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures
No information.

Advice on general occupational hygiene
Wear suitable protective equipment; see Section 8. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Handle under inert gas atmosphere in dry equipment. Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Before entering areas where food is eaten, remove contaminated clothing and protective equipment.

7.2 Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions
Store in accordance with local regulations. Keep in a cool, dry and well ventilated place. Keep in tightly closed container. Keep away from food, drink and animal feeding stuffs.



Packaging materials
Store only in original container.

Requirements for storage rooms and vessels
Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage class
No information.

Further information on storage conditions
No information.

7.3 Specific end use(s)
Recommendations
Do not empty the container under pressure.

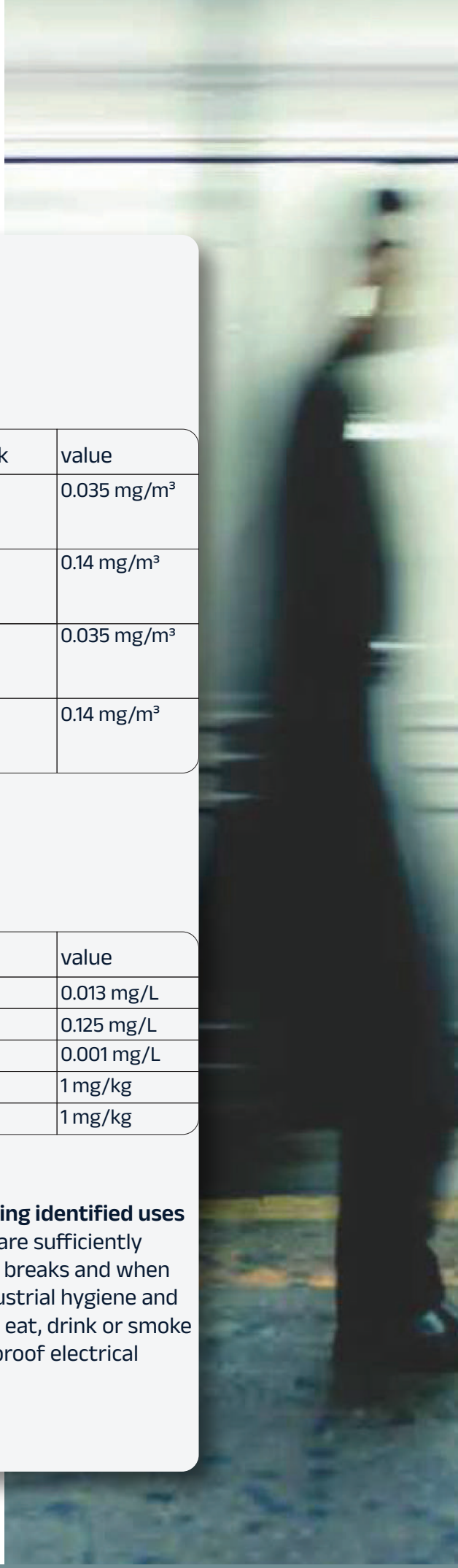
Industrial sector specific solutions
No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Occupational Exposure limit values

Name	mg/m³	ml/m³	Short-term value mg/m³	Short-term value ml/m³	Remark	Biological Tolerance Values
Isocyanates, all (as –NCO) Except methyl isocyanate	0.02	/	0.07	/	Sen	1 µmol isocyanate-derived diamine/mol creatinine in urine - At the end of the period of exposure

Information on monitoring procedures
BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.



DNEL/DMEL values

For product
No information.

For components

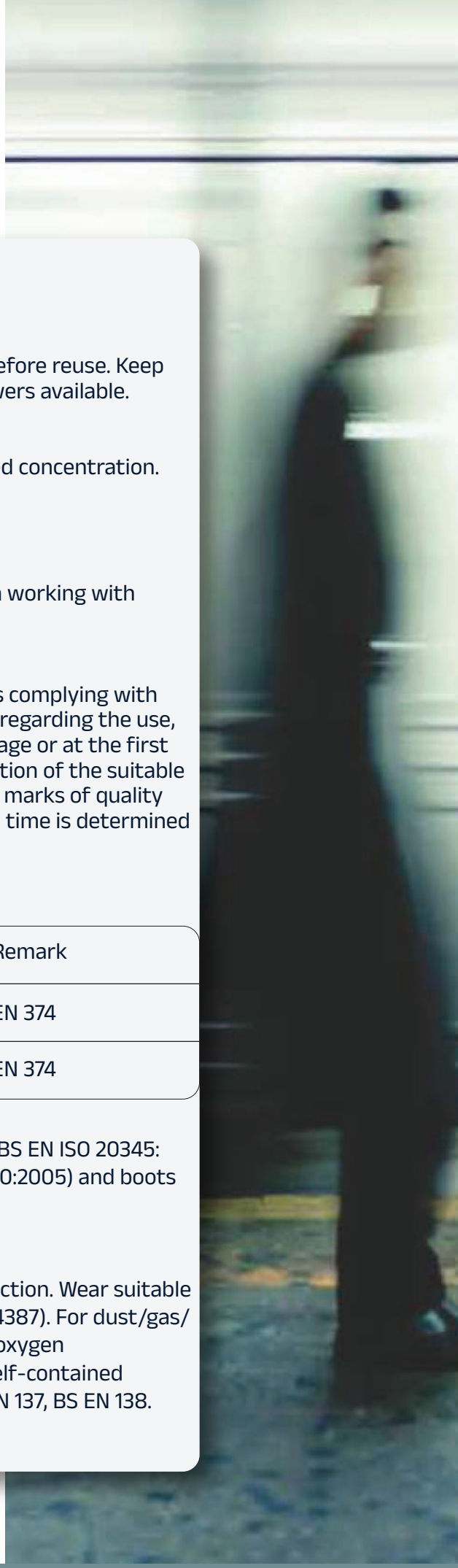
Name	Type	Exposure route	exp. frequency	Remark	value
m-tolylidene diisocyanate	Worker	Inhalation	long term systemic effects	/	0.035 mg/m³
m-tolylidene diisocyanate	Worker	Inhalation	short term systemic effects	/	0.14 mg/m³
m-tolylidene diisocyanate	Worker	Inhalation	long term local effects	/	0.035 mg/m³
m-tolylidene diisocyanate	Worker	Inhalation	short term local effects	/	0.14 mg/m³

PNEC values
For product
No information.

For components

Name	Exposure route	Remark	value
m-tolylidene diisocyanate	fresh water	/	0.013 mg/L
m-tolylidene diisocyanate	water, intermittent release	fresh water	0.125 mg/L
m-tolylidene diisocyanate	marine water	/	0.001 mg/L
m-tolylidene diisocyanate	water treatment plant	/	1 mg/kg
m-tolylidene diisocyanate	soil	dry weight	1 mg/kg

8.2 Exposure controls
Appropriate engineering control
Substance/mixture related measures to prevent exposure during identified uses
Ensure that the rooms where the product is stored and/or used are sufficiently ventilated. Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols. Use explosion-proof electrical equipment.



Structural measures to prevent exposure
No information.

Organisational measures to prevent exposure
Remove all contaminated clothes immediately and wash them before reuse. Keep eyewash bottles or personal eyewash units and emergency showers available.

Technical measures to prevent exposure
Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment
Eye and face protection
Tight fitting protective goggles (EN 166). Wear a face shield when working with molten material.

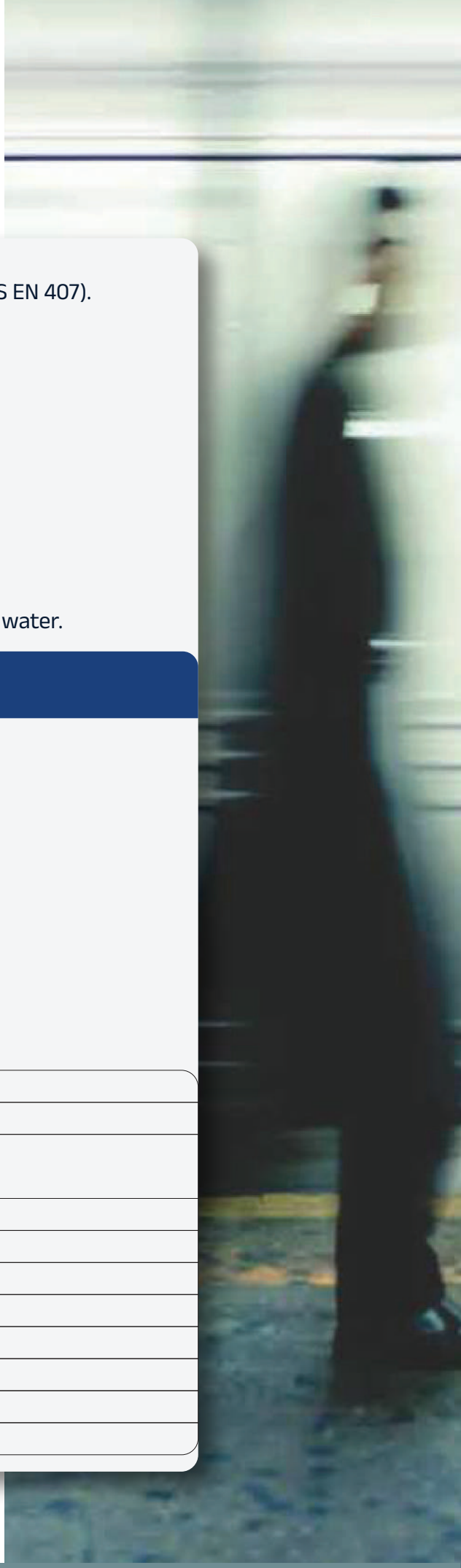
Hand protection
Protective gloves (EN 374). Chemical-resistant, impervious gloves complying with an approved standard. Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. 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. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

Material	Thickness	Penetration Time	Remark
PVA	/	/	EN 374
Leather	/	/	EN 374

Skin protection
Cotton protective clothing and shoes that cover the entire foot (BS EN ISO 20345: 2022). At high risk of skin exposure chemical suits (BS EN ISO 6530:2005) and boots may be required (BS EN ISO 20345:2022).

Respiratory protection
In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (BS EN 136) with filter A2-P2 (BS EN 14387). For dust/gas/vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.



Thermal hazards
When working with hot material use thermal Insulated gloves (BS EN 407).

Environmental exposure controls
Substance/mixture related measures to prevent exposure
No information.

Instruction measures to prevent exposure
No information.

Organisational measures to prevent exposure
No information.

Technical measures to prevent exposure
Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state
liquid

Colour
light yellow

Odour
pungent

Important health, safety and environmental information

Odour threshold	No information.
Melting point/Freezing point	No information.
Boiling point or initial boiling point and boiling range	251 °C
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	127 °C
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	No information.
Viscosity	No information.
Solubility	(Reacts with water.)

Partition coefficient	No information.
Vapour pressure	< 0.279 hPa at 21 °C
Density and/or relative density	Relative density: 1.21 ((water=1)) Density: 1.21 g/cm 3 at 21 °C
Relative vapour density	No information.
Particle characteristics	No information.

9.2 OTHER INFORMATION

Explosive properties	No information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
Stable under recommended transport or storage conditions.

10.2 Chemical stability
Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions
The product is stable under recommended storage and handling conditions.

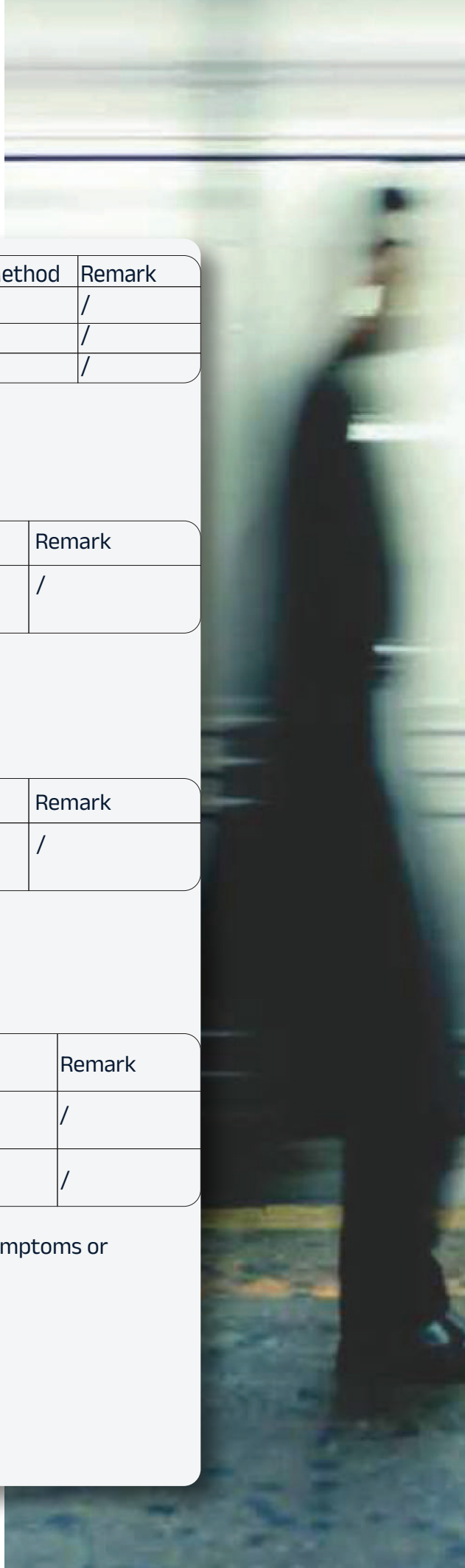
10.4 Conditions to avoid
Follow directions for use and storage.

10.5 Incompatible materials
Strong oxidising agents.

10.6 Hazardous decomposition products
Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Hazardous combustion products, see Section 5 of the safety data sheet.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
(a) Acute toxicity
For product



Exposure route	Type	Species	Time	value	Method	Remark
oral	LD_{50}	rat	/	4100 mg/kg	/	/
inhalation	LD_{50}	rat	4 h	> 14 ppm	/	/
dermal	LD_{50}	rabbit	/	> 9400 mg/kg	/	/

Additional information
Fatal if inhaled.

(b) Skin corrosion/irritation
For product

Species	Time	Result	Method	Remark
/	/	Moderately irritating.	/	/

Additional information
Causes skin irritation.

(c) Serious eye damage/irritation
For product

Species	Time	Result	Method	Remark
/	/	Severe irritation.	/	/

Additional information
Causes serious eye irritation.

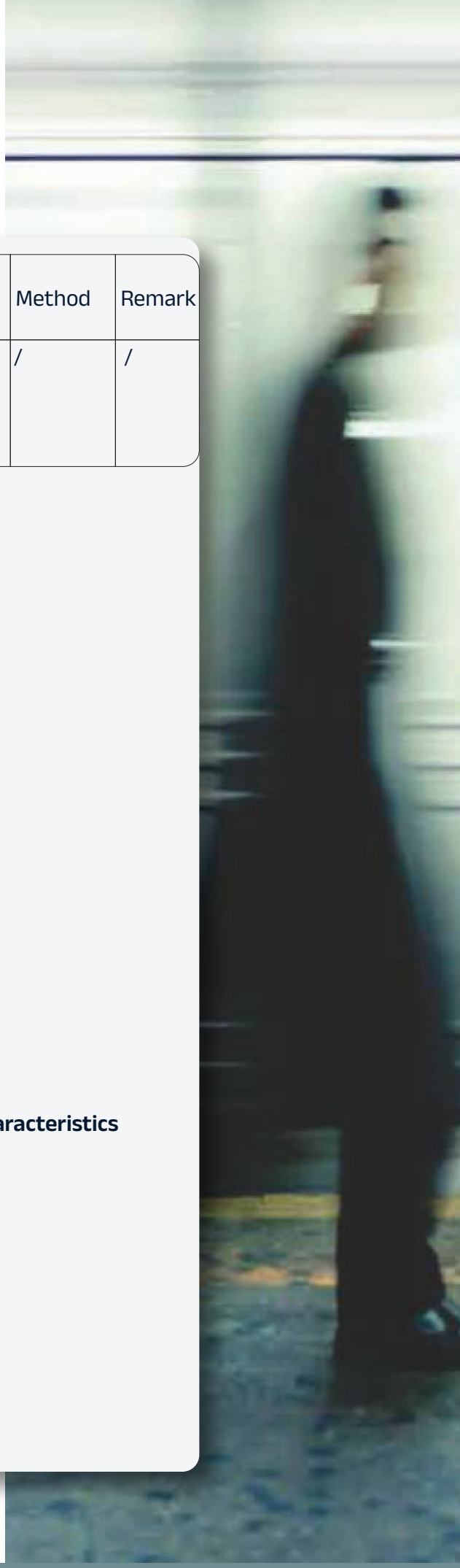
(d) Respiratory or skin sensitisation
For product

Exposure route	Species	Time	Result	Method	Remark
dermal	/	/	Sensitizing.	/	/
inhalation	/	/	Sensitizing.	/	/

Additional information
May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

(e) (Germ cell) mutagenicity
No information.

(f) Carcinogenicity
For components



Name	Exposure route	Type	Species	Time	Value	Result	Method	Remark
m-tolylidene diisocyanate	/	/	/	/	/	IARC 2B: Possibly carcinogenic to humans.	/	/

(g) Reproductive toxicity
No information.

Summary of evaluation of the CMR properties
Suspected of causing cancer.

(h) STOT-single exposure
No information.

Additional information
STOT - single exposure: May cause respiratory irritation.

(i) STOT-repeated exposure
No information.

Additional information
STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard
No information.

Additional information
Aspiration hazard: Not classified.

Symptoms related to the physical, chemical and toxicological characteristics
No information.

Interactive effects
No information.

11.2 Information on other hazards
Endocrine disrupting properties

No information.
Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
Acute (short-term) toxicity
No information.

Chronic (long-term) toxicity
No information.

12.2 Persistence and degradability
Abiotic degradation, physical- and photo-chemical elimination
No information.

Biodegradation
No information.

12.3 Bioaccumulative potential
Partition coefficient
No information.

Bioconcentration factor (BCF)
No information.

12.4 Mobility in soil
Known or predicted distribution to environmental compartments
No information.

Surface tension
No information.

Adsorption/Desorption
No information.

12.5 Results of PBT and vPvB assessment
No evaluation.

12.6 Endocrine disrupting properties
No information.

12.7 Other adverse effects
No information.

12.8 Additional information
For product
Harmful to aquatic life with long lasting effects. Do not allow to reach ground water, water courses or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product / Packaging disposal
Waste chemical
Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/ transformer of hazardous waste. Do not allow product to reach drains/sewage systems.

Waste codes / waste designations according to LoW
No information.

Packaging
Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents.

Waste codes / waste designations according to LoW
No information.

Waste treatment-relevant information
No information.

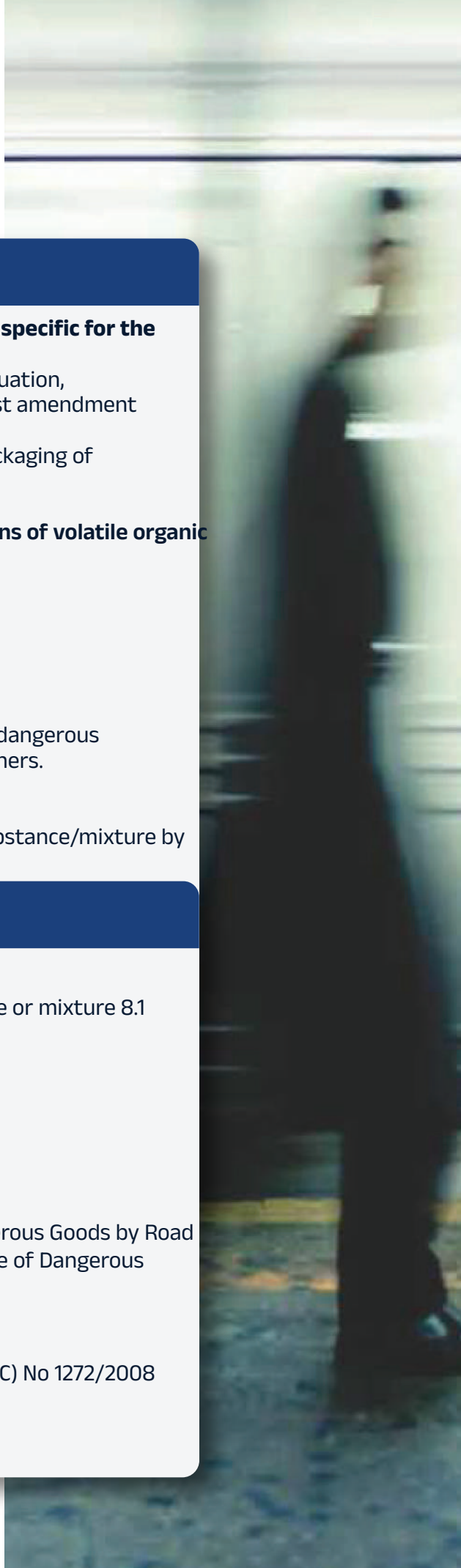
Sewage disposal-relevant information
No information.

Other disposal recommendations
No information.

SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
UN 2078	UN 2078	UN 2078	UN 2078
14.2 UN proper shipping name			
TOLUENE DIISOCYANATE	TOLUENE DIISOCYANATE	TOLUENE DIISOCYANATE	TOLUENE DIISOCYANATE

14.3 Transport hazard class(es)			
6.1	6.1	6.1	6.1
			
14.4 Packing group			
II	II	II	II
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities 100 ml Special provisions 279 Packing Instructions P001, IBC02 Transport category 2 Tunnel restriction code (D/E)	Limited quantities 100 ml EmS F-A, S-A Flash point 127 °C	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y641 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty /Pkg) 1 L Packing Instructions (Pkg Inst) 654 Maximum Net Quantity/Package (Max Net Qty/Pkg)5 L Special provisions A113	Limited quantities 100 ml
14.7 Maritime transport in bulk according to IMO instruments			
	Goods may not be carried in bulk in bulk containers, containers or vehicles.		



SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
not applicable

Regulation EC 648/2004 on detergents
No information.

Special instructions
Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2 Chemical Safety Assessment
No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes
2.2 Label elements 5.2 Special hazards arising from the substance or mixture 8.1 Control parameters 8.2 Exposure controls

Key literature references and sources for data
No information.

Abbreviations and acronyms
ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment

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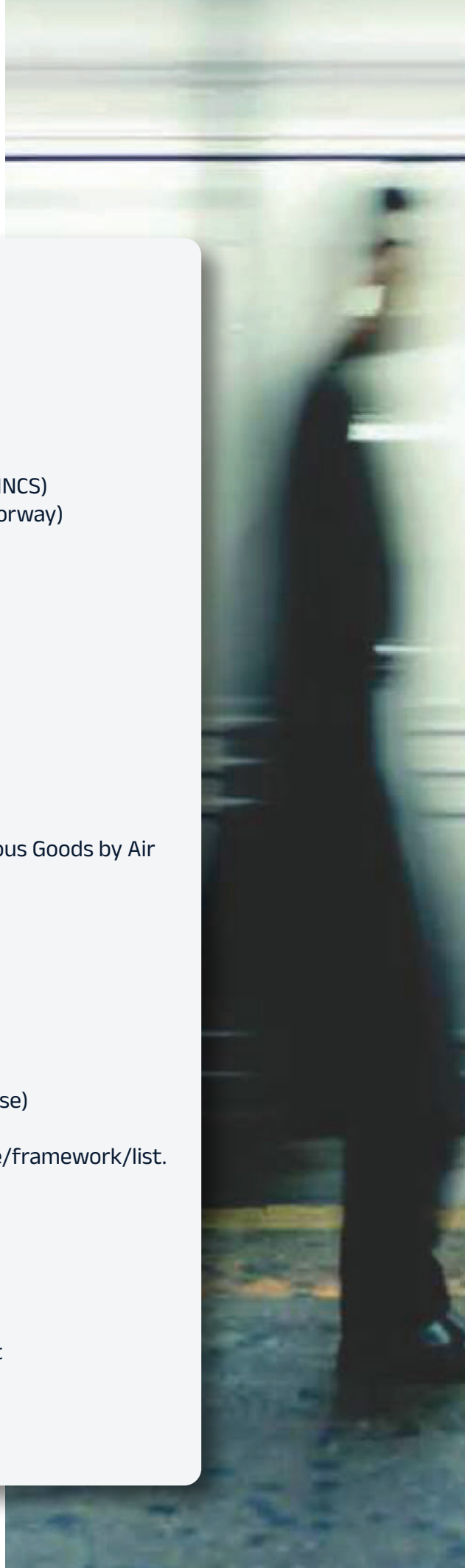

CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work

PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H412 Harmful to aquatic life with long lasting effects.