

Safety Data Sheet REACH(UK) (GB)
antifingerprint w



n-tec GmbH
84051 Essenbach - Altheim

Date printed 07.04.2021, Revision 07.04.2021

Version 03. Supersedes version: 02

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

1.1 Product identifier

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

1.2.1 Relevant uses

Coating agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

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84051 Essenbach - Altheim / GERMANY
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Technical information

info@n-tec.de

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body

+49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Eye Dam. 1: H318 Causes serious eye damage.
Skin Sens. 1: H317 May cause an allergic skin reaction.

2.2 Label elements

Hazard pictograms



Signal word

DANGER

Contains:

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane
N-[3-(Trimethoxysilyl)propyl]ethylenediamine

Hazard statements

H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing vapours / spray.
P280 Wear protective gloves / eye protection / face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.
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 / doctor / ...
P501 Dispose of contents/container in accordance with local/national regulation.

2.3 Other hazards

Human health dangers

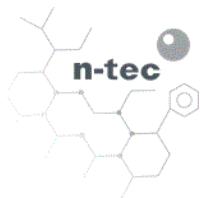
Contact with moisture liberates Methanol.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.



SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
3 - <5	[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane CAS: 2530-83-8, EINECS/ELINCS: 219-784-2, Reg-No.: 01-2119513212-58-XXXX GHS/CLP: Eye Dam. 1: H318
1 - <3	N-[3-(Trimethoxysilyl)propyl]ethylenediamine CAS: 1760-24-3, EINECS/ELINCS: 217-164-6, Reg-No.: 01-2119970215-39-XXXX GHS/CLP: Eye Dam. 1: H318 - Skin Sens. 1B: H317 - STOT SE 3: H335 - STOT RE 2: H373

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Remove person to fresh air and keep comfortable for breathing.
In the event of symptoms seek medical treatment.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Seek medical advice immediately.

Ingestion

Seek medical advice immediately.
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam, dry powder, water spray jet, carbon dioxide.

Extinguishing media that must not be used

Full water jet.

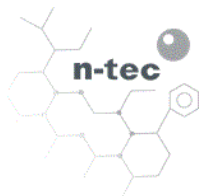
5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Fluorine compounds
Nitrogen oxides (NOx).

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use personal protective equipment.
High risk of slipping due to leakage/spillage of product.
Keep away from all sources of ignition.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide suitable vacuuming at the processing machines.
Use only in well-ventilated areas.

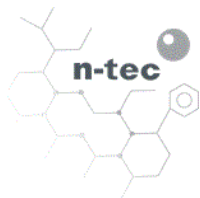
Do not eat, drink, smoke or take drugs at work.
Take off contaminated clothing and wash before reuse.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Do not store together with oxidizing agents.
Do not store together with food and animal food/diet.
Keep container tightly closed.
Keep container in a well-ventilated place.
Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2



SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Silicon dioxide
CAS: 7631-86-9, EINECS/ELINCS: 231-545-4, Reg-No.: 01-2119379499-16-XXXX
Long-term exposure: 6 mg/m ³ , total inhalable dust
Methanol
CAS: 67-56-1, EINECS/ELINCS: 200-659-6, EU-INDEX: 603-001-00-X, Reg-No.: 01-2119433307-44-XXXX
Long-term exposure: 200 ppm, 266 mg/m ³ , Sk
Short-term exposure (15-minute): 250 ppm, 333 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

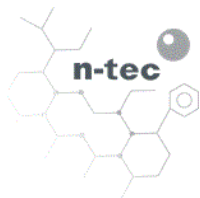
Substance / EC LIMIT VALUES
Methanol
CAS: 67-56-1, EINECS/ELINCS: 200-659-6, EU-INDEX: 603-001-00-X, Reg-No.: 01-2119433307-44-XXXX
Eight hours: 200 ppm, 260 mg/m ³ , H

DNEL

Substance
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8
Industrial, inhalative, Long-term - systemic effects, 147 mg/m ³
Industrial, dermal, Long-term - systemic effects, 21 mg/kg
Industrial, inhalative, Acute - systemic effects, 147 mg/m ³
Industrial, dermal, Acute - systemic effects, 21 mg/kg
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
Industrial, dermal, Acute - systemic effects, 5 mg/kg/d
Industrial, dermal, Long-term - systemic effects, 5 mg/kg/d
Industrial, inhalative, Long-term - systemic effects, 35,5 mg/m ³
general population, inhalative, Long-term - systemic effects, 8,7 mg/m ³
general population, oral, Long-term - systemic effects, 2,5 mg/kg/d
general population, dermal, Long-term - systemic effects, 2,5 mg/kg/d

PNEC

Substance
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8
soil, 0,13 mg/kg
sediment, 0,79 mg/kg
seawater, 0,1 mg/l
freshwater, 1 mg/l
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
sewage treatment plants (STP), 25 mg/l
soil, 0,0075 mg/kg
sediment (seawater), 0,005 mg/kg
sediment (freshwater), 0,05 mg/kg
seawater, 0,0062 mg/l
freshwater, 0,062 mg/l



8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0,7 mm; Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not breathe vapour/spray. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	If workplace limit values are exceeded or if there is insufficient ventilation: Short term: filter apparatus, filter AB. (DIN EN 14387)
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

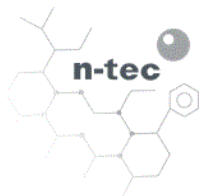
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	white
Odor	characteristic
Odour threshold	not required
pH-value	5,07
pH-value [1%]	5,20
Boiling point [°C]	not determined
Flash point [°C]	> 90
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,032 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	soluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	49,5 s (Ford cup)
Relative vapour density	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Auto-ignition temperature	not required
Decomposition temperature [°C]	not determined
Particle characteristics	No information available.

9.2 Other information

none



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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

10.4 Conditions to avoid

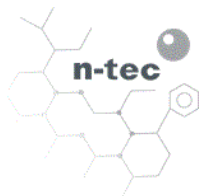
See SECTION 7.2.

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

Contact with moisture liberates Methanol.



SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product
ATE-mix, oral, > 2000 mg/kg
Substance
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8
LD50, oral, Rat, 8025 mg/kg (OECD TG 401)
NOAEL, oral, Rat, 500 mg/kg/28d (OECD TG 407)
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LD50, oral, Rat, 2995 mg/kg bw (Lit.)

Acute dermal toxicity

Product
ATE-mix, dermal, > 2000 mg/kg
Substance
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8
LD50, dermal, Rabbit, 4250 mg/kg (OECD TG 402)
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LD50, dermal, Rat, >2000 mg/kg bw (Lit.)

Acute inhalational toxicity

Product
ATE-mix, inhalative, > 20 mg/l 4h
Substance
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8
LC50, inhalative, Rat, 5,3 mg/l (OECD TG 403)
NOAEL, inhalative, Rat, 0,225 mg/kg/14d (OECD 412)
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LC50, inhalative, Rat, 1,49 - 2,44 mg/L (4h) (Lit.)

Serious eye damage/irritation

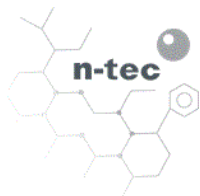
Risk of serious damage to eyes.
Based on the available information, the classification criteria are fulfilled.
Calculation method

Substance
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8
Eye, Rabbit, OECD 405, corrosive
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
Eye, Rabbit, OECD 405, corrosive

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8
dermal, Rabbit, OECD 404, non-irritating
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3



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dermal, Rabbit, Study, negativ

Respiratory or skin sensitisation

May cause an allergic skin reaction.
Based on the available information, the classification criteria are fulfilled.
Calculation method

Substance

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8

dermal, Guinea pig, OECD 406, negativ

N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3

dermal, Guinea pig, OECD 406, sensitising

**Specific target organ toxicity —
single exposure**

Based on the available information, the classification criteria are not fulfilled.

Substance

N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3

positive

**Specific target organ toxicity —
repeated exposure**

Based on the available information, the classification criteria are not fulfilled.

Substance

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8

NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 408, negativ

N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3

NOAEC, inhalative, Rat, 15 mg/m³, OECD 413, positive

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Substance

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8

OECD 471, negativ

N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3

Ames-test, negativ

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

Substance

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8

NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 415, negativ

N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3

NOAEL, oral, Rat, 500 mg/kg bw/day, OECD 422, negativ

Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

Substance

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8

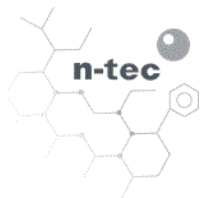
Study, negativ

Aspiration hazard

Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.



SECTION 12: Ecological information

12.1 Toxicity

Substance
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8
LC50, (96h), Cyprinus carpio, 55 mg/l
EC50, Algae, 119 mg/l /7d
EC50, (48h), Daphnia magna, 324 mg/l
LC0, (96h), Cyprinus carpio, 30 mg/l
NOEC, (3h), Bacteria, > 100 mg/l (OECD TG 209)
NOEC, Algae, < 50 mg/l /7d
NOEC, (21d), Daphnia magna, 100 mg/l (OECD 202)
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LC50, (96h), Danio rerio, 597 mg/l (Lit.)
EC50, (16h), Pseudomonas putida, 67 mg/l (Lit.)
EC50, (48h), Daphnia magna, 81 mg/l (Lit.)
IC50, (72h), Algae, 8,8 mg/l (OECD 201)
NOEC, (21d), Daphnia magna, > 1 mg/l (Lit.)
NOEC, (72h), Algae, 3,1 mg/l (OECD 201)

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

12.5 Results of PBT and vPvB assessment

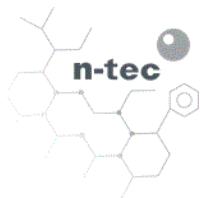
Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.
Ecological data of complete product are not available.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended)

070101*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
Untamminated packaging may be taken for recycling.

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

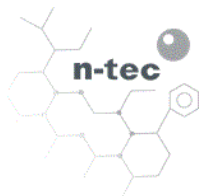
14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable



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14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- **Observe employment restrictions for people** Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- **VOC (2010/75/CE)** 0 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

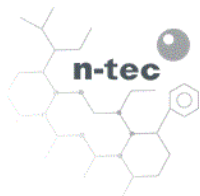
16.1 Hazard statements (SECTION 3)

H373 May cause damage to organs through prolonged or repeated exposure.

H335 May cause respiratory irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.



16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV@TWA = Threshold limit value – time-weighted average
TLV@STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

Modified position

SECTION 8 been added: If workplace limit values are exceeded or if there is insufficient ventilation:

SECTION 12 been added: Spillages may penetrate the soil causing ground water contamination.

SECTION 12 been added: Ecological data of complete product are not available.

SECTION 12 been added: Do not discharge product unmonitored into the environment or into the drainage.



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