

□□ (EU) 2020/878 □ □ □ □ □ REACH □□ (EC) 1907/2006 □ □ □

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: H302 - □□□ □□□.
H315 - □□□ □□□ □□□.
H318 - □□ □□ □□□ □□□.
: P264 - □□ □□□ hands and forearms □(□) □□□ □□□□.
P280 - □□□□, **respiratory protection**, □□□, □□□, □□□□□ □(□) □□□□□.
P301+P312 - □□ □□: □□□□ □□□ □□ □□ □□ □□ □□ □(□) □□□□□.
P302+P352 - □□□ □□□ □□□ □ □□□□.
P305+P351+P338 - □□ □□□□: □ □□ □□ □□□□ □□□□. □□□□ □□□ □□□ □□□□□. □□ □□□□.

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□□	□□□□	%
FERRIC CHLORIDE HEXAHYDRATE	CAS □□: 10025-77-1 EC □□: 231-729-4	100

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Self protection of the first-aider

: 0000 000 0000(00)0 000 0000.
: 000 000 00 000 0000 00 000 000 0000.
: Wash skin with plenty of water. 000 000 0000. 00 000 0000: 0000 00/000 0000
.
: 0 00 00 0000 0000. 0000 000000 00000. 00 0000. **Call a physician immediately.**
: 00 00000. 0000 000 0000(00)0 000 0000.
: 0000000 000 000 0000, 0000 0000000 00000000(00 8 00).

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: None under normal conditions. Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.

: ☐☐.

: Serious damage to eyes.

: ☐☐ ☐☐.

Treat symptomatically.

FERRIC CHLORIDE HEXAHYDRATE, 97%

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□□ 5: □□•□□□ □□□□

5.1. □□□ □□□

- □□□ : Water spray. Dry powder. Foam.
- □□□ : Do not use a heavy water stream.

5.2. □□□□□□□ □□□ □□ □□□

- □□ : No fire hazard.
- □□ : No direct explosion hazard.
- □ □□□ □□□ □□ : Toxic fumes may be released.

5.3. □□□□ □□□□ □ □□□□

- □□ : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
- □□ □ □□ : Do not attempt to take action without suitable protective equipment. □□□ □□□□□. Complete protective clothing.

□□ 6: □□□□□ □□□□

6.1. □□□ □□□□ □□ □□□ □□□□ □ □□□

- □□ : □□□ □□□ □□ □□□□□ □□□ □□ □□□ □□, □□□□□ □□□□ □□ □□□□ □□□□□□.
- □□ □□ : Wear recommended personal protective equipment.
- □□ : Ventilate spillage area. □□ □ □□□ □□□ □□□□.
- □□ □□ : Do not attempt to take action without suitable protective equipment. □□ □□□ □□□ □□ 8: "□□□□ □ □□□□□"□ □□□□□.
- □□ : Evacuate unnecessary personnel.

6.2. □□□ □□□□ □□ □□□ □□□□

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6.3. □□ □□ □□ □□

- : Using a clean shovel, put the material in a dry container and cover without compressing it.
- □□ : Mechanically recover the product.
- □□ □□□□ : Dispose of materials or solid residues at an authorized site.

6.4. □□ □□ □□

For further information refer to section 13.

□□ 7: □□ □ □□□□

7.1. □□□□□□

- □ □□□□□ □□ □□ : □□□□ □□ □□□□□ □□□ □□□ □□□ □□.
- : Ensure good ventilation of the work station. □□ □ □□□ □□□ □□□□. □□ □□□□ □□□□□□.
- □□ : □□ □□ □ □□□ □□□ □□□□□. □ □□□ □□□ □□□ □□□, □□□□ □□□□ □□□. Always wash hands after handling the product.

7.2. □□□□ □□□ □□□ □□□ □□ □□

- □□ : Keep in a cool, well-ventilated place away from heat.
- □□ : □□□□ □□□□ □□□□□ □□□□.
- □□ : 15 – 25 °C
- : Always store product in container of same material as original container.

FERRIC CHLORIDE HEXAHYDRATE, 97%

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□□ □□(LK) : LK 8 - □□□ □□

7.3. □□ □□ □□

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□□ 8: □□□□ □ □□□□□

8.1. □□ □□ □□

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8.2. □□□□

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Ensure good ventilation of the work station.

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Wear recommended personal protective equipment.

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Chemical goggles or safety glasses

Skin protection

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Wear a mask

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Protective gloves

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Wear appropriate mask

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□□ 9: □□□□□ □□

9.1. □□□□ □□□□□□ □□□ □□ □□

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: Yellow to orange. Brownish yellow.

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: Powder. Lumps. Granular powder.

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: 270.3 g/mol

□□

: slight hydrochloric acid odour.

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: 37 °C

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: 280 – 285 °C

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FERRIC CHLORIDE HEXAHYDRATE, 97%

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□□ □□	: □□□□
pH	: □□□□
pH □□	: □□□□
□□(□□□)	: □□□□
□□□	: □: 920 g/l at 20 °C - Soluble in water
Partition coefficient n-octanol/water (Log Kow)	: □□□□
Partition coefficient n-octanol/water (Log Pow)	: 4
□□□	: 1 mm Hg at 194 °C
50°C□□□ □□□	: □□□□
□□	: 1.82 g/cm³ at 20 °C
□□	: □□□□
20°C□□□ □□ □□ □□	: □□□□
Particle size	: □□□□

9.2. □□□□□□□□

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□□ □□ : 600 – 1200 kg/m³

□□ 10: □□□□ □□□□

10.1. □□□

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

10.2. □□□□□□□

Stable under normal conditions.

10.3. □□□□□□□□

No dangerous reactions known under normal conditions of use.

10.4. □□□□□□□

None under recommended storage and handling conditions (see section 7).

10.5. □□□□□□□

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10.6. □□□□□□□□□□

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

□□ 11: □□□□ □□□□

11.1. □□ (EC) No 1272/2008 □□□□, □□□□□□□□ □□□□

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FERRIC CHLORIDE HEXAHYDRATE, 97%

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FERRIC CHLORIDE HEXAHYDRATE, 97% (10025-77-1)	
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11.2. □□ □□ □□

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□□ 12: □□□ □□□ □□

12.1. □□

□□□ - □□ : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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12.2. □□□ □ □□□

FERRIC CHLORIDE HEXAHYDRATE, 97% (10025-77-1)	
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12.3. □□ □□□

FERRIC CHLORIDE HEXAHYDRATE, 97% (10025-77-1)	
Partition coefficient n-octanol/water (Log Pow)	4

12.4. □□ □□□

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12.5. PBT □ vPvB □□ □□

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12.6. □□□ □□ □□

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12.7. □□ □□ □□

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□□ 13: □□□ □□□□

13.1. □□□ □□□

□□ □□(□□□) : Disposal must be done according to official regulations.

□□□ □□□ : Dispose of contents/container in accordance with licensed collector’s sorting instructions.

□□ □□ □□ □□ : Disposal must be done according to official regulations.

□□/□□ □□ □□□□ : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.

□□ □□ : Do not re-use empty containers.

Ecological waste information : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID □□ □□

FERRIC CHLORIDE HEXAHYDRATE, 97%

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14.1. UN □□ □□ ID □□

UN-□□ (ADR)	: UN 3260
UN-□□ (IMDG)	: UN 3260
UN-□□ (IATA)	: UN 3260
UN-□□ (ADN)	: UN 3260
UN-□□ (RID)	: UN 3260

14.2. UN □□ □□□

□□ □□□ (ADR)	: □□□ □□, □□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (IMDG)	: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
□□ □□□ (IATA)	: Corrosive solid, acidic, inorganic, n.o.s.
□□ □□□ (ADN)	: □□□ □□, □□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (RID)	: □□□ □□, □□, □□□, □□ □□□ □□□ □□ □
□□ □□ □□ (ADR) (ADR)	: UN 3260 □□□ □□, □□, □□□, □□ □□□ □□□ □□ □ FERRIC CHLORIDE HEXAHYDRATE, 8, III, (E)
Transport document description (IMDG)	: UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. FERRIC CHLORIDE HEXAHYDRATE, 8, III
Transport document description (IATA)	: UN 3260 Corrosive solid, acidic, inorganic, n.o.s. FERRIC CHLORIDE HEXAHYDRATE, 8, III
Transport document description (ADN)	: UN 3260 □□□ □□, □□, □□□, □□ □□□ □□□ □□ □, 8, III
Transport document description (RID)	: UN 3260 □□□ □□, □□, □□□, □□ □□□ □□□ □□ □, 8, III

14.3. □□□□□ □□□ □□

ADR

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□□ □□ (ADR)	: 8
:	: 

IMDG

□□□□□ □□□ □□ (IMDG)	: 8
□□ □□ (IMDG)	: 8
:	: 

IATA

□□□□□ □□□ □□ (IATA)	: 8
□□ □□ (IATA)	: 8
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ADN

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RID

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□□ □□ (RID)	: 8

FERRIC CHLORIDE HEXAHYDRATE, 97%

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14.4. □□□□

□□ □□ (ADR)	: III
□□ □□(IMDG)	: III
□□ □□ (IATA)	: III
□□ □□(ADN)	: III
□□ □□(RID)	: III

14.5. □□ □□□

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EmS-No. (□□)	: F-A
EmS-No. (□□)	: S-B
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14.6. □□□□ □□ □□ □□□□

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□□ □□ (ADR)	: C2
□□ □□(ADR)	: 274
□□□(ADR)	: 5kg
□□□(ADR)	: E1
□□ □□(ADR)	: P002, IBC08, LP02, R001
□□ □□ (ADR)	: B3
□□ □□ □□ □□ □□(ADR)	: MP10
□□□ □□ □ □□ □□□□ □□ (ADR)	: T1
□□□ □□ □ □□ □□□□ □□ □□ (ADR)	: TP33
□□ □□(ADR)	: SGAV
□□ □□□□ □□	: AT
□□ □□(ADR)	: 3
□□ □□ □□ □□ - □□ □□ □□(ADR)	: VC1, VC2, AP7
□□ □□ □□(Kemler □□)	: 80
Orange plates (□□□□□□)	: 80 3260

□□ □□ □□ (ADR)	: E
EAC □□	: 2X

□□ □□	
□□ □□ (IMDG)	: 223, 274
□□ □□(IMDG)	: 5 kg
□□□(IMDG)	: E1
□□ □□ (IMDG)	: P002, LP02
IBC □□ □□(IMDG)	: IBC08
IBC □□ □□ (IMDG)	: B3
□□ □□ (IMDG)	: T1
□□ □□ □□ (IMDG)	: TP33
□□ □□ (IMDG)	: A
□□(IMDG)	: SGG1, SG36, SG49
□□□ □□□□ (IMDG)	: Causes burns to skin, eyes and mucous membranes.

□□ □□	
PCA □□ □□(IATA)	: E1
PCA □□ □□(IATA)	: Y845
PCA □□ □□ □□ □□□(IATA)	: 5kg
PCA □□ □□(IATA)	: 860

FERRIC CHLORIDE HEXAHYDRATE, 97%

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PCA □□ □□□(IATA) : 25kg
CAO □□ □□(IATA) : 864
CAO □□ □□□(IATA) : 100kg
□□ □□(IATA) : A3, A803
ERG □□(IATA) : 8L

□□ □□ □□
□□ □□(ADN) : C2
□□ □□(ADN) : 274
□□□(ADN) : 5 kg
□□□(ADN) : E1
□□ □□(ADN) : PP, EP
□□ □□/□□□ □□(ADN) : 0

□□ □□
□□ □□(RID) : C2
□□ □□(RID) : 274
□□ □□(RID) : 5kg
□□□(RID) : E1
□□ □□ (RID) : P002, IBC08, LP02, R001
□□ □□ (RID) : B3
□□ □□ □□ □□ □□(RID) : MP10
□□□ □□ □□ □□□□ □□ (RID) : T1
□□□ □□ □□ □□□□ □□ □□ (RID) : TP33
RID □□□ □□ □□(RID) : SGAV
□□ □□(RID) : 3
□□ □□ □□ □□ - □□ □□(RID) : VC1, VC2, AP7
□□ □□□ : CE11
□□□ □□ □□ (RID) : 80

14.7. □□□□□□(IMO)□ □□ □□ □□ □□

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□□ 15: □□ □□□□

15.1. □□, □□ □ □□□ □□□□ □□□□ □□ □□ □□ □□/□□

EU □□
REACH □□□ XVII(□□ □□)
REACH □□□ XVII□ □□□□ □□
REACH □□□ XIV (□□ □□)□ □□□□ □□
REACH □□ □□ □□ (SVHC)
REACH □□ □□ □□ □□□□ □□
PIC □□ (□□□□□□)
PIC □□□ □□□□ □□ (□□ EU 649/2012)
POP □□ (□□□ □□ □□□□)
POP □□□ □□□□ □□ (□□ EU 2019/1021)
Ozone Regulation (2024/590)
Not listed on the Ozone Depletion list (Regulation EU 2024/590)
□□□□ □□(428/2009)
Not listed on the COUNCIL REGULATION (EC) of dual-use items.
□□ □□□□ □□ (2019/1148)
Not listed on the Explosives Precursors list (EU)

FERRIC CHLORIDE HEXAHYDRATE, 97%

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ □□□□ □□ (273/2004)

Not listed on the Drug Precursors list (EU)

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Employment restrictions

: □□ □□ □□□ (MuSchG) □□ □□ □□.
□□ □□□ □□□ (JArbSchG) □□ □□ □□.

WGK

: WGK 1, □□ □□ □□ □□ (Classification according to AwSV; ID □□ 515).

□□ □□ □□(12. BImSchV)

: Is not listed in the Major Accidents Ordinance (12. BImSchV)

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SZW-lijst van kankerverwekkende stoffen

: □□□ □□□□ □□□□□.

SZW-lijst van mutagene stoffen

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SZW-lijst van reprotoxische stoffen – Borstvoeding

: □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid

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SZW-lijst van reprotoxische stoffen – Ontwikkeling

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: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)
Regulation of the Minister of Health of 25 August 2015 on the method of marking places, pipelines, and containers and tanks used for storing or containing hazardous substances or hazardous mixtures (J.o.L. 2015, item 1368 as amended)

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Royal Decree 665/1997

: Is not subject to the Royal Decree 665/1997

15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

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ACGIH	American Conference of Governmental Industrial Hygienists
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FERRIC CHLORIDE HEXAHYDRATE, 97%

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

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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	□□ □□ □
BOD	Biochemical oxygen demand (BOD)
CAS □□	□□□□ □□ □□ □□(CAS)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	□□□ □□ □□□
CSA	□□ □□ □□□ □□
DMEL	Derived Minimal Effect level
DNEL	□□ □□□ □□
EC □□	□□ □□□ □□
EC50	Median effective concentration
ED	□□□ □□□□
EN	□□ □□
EWC	European waste catalogue
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
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	□□□ □□ □□
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	□□ □□□ □□
PPE	□□ □□□
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	□□□□□□□□
STP	Sewage treatment plant

FERRIC CHLORIDE HEXAHYDRATE, 97%

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

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TF	□□□□ □□
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
COV	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	□□ □□ □□□

H-□□ □ EUH-□□ □□:	
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H302	□□□ □□□.
H315	□□□ □□□ □□□.
H318	□□ □□ □□□ □□□.

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