INOX WELD KLEEN

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 25/02/2025 Revision date: 25/02/2025 Supersedes version of: 02/01/2025 Version: 4.4

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

1.1. Product identifier

Product name : INOX WELD KLEEN
UFI : 09YY-8897-S00H-V6F0
Product code : BDS000857BU

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

Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Cleaners - Heavy duty

Uses advised against

Restrictions on use : Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

Supplier
CRC Industries Europe B.V.
Touwslagerstraat 1
9240 Zele
Belgium
T +32(0)52/45.60.11, F +32(0)52/45.00.34
hse@crcind.com, www.crcind.com

1.4. Emergency telephone number

Emergency number : +32(0)52/45.60.11
Office hours: 9-17h CET

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Corrosive to metals, Category 1	H290
Acute toxicity (oral), Category 4	H302
Acute toxicity (inhalation:vapour) Category 4	H332
Skin corrosion/irritation, Category 1	H314
Serious eye damage/eye irritation, Category 1	H318

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

Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Harmful if inhaled. Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage.

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS05 GHS07

Signal word (CLP) : Danger
Contains : nitric acid …% [C ≤ 70 %]; ammonium bifluoride; ammonium hydrogen difluoride; Nitric acid aluminum salt; Calcium nitrate
Hazard statements (CLP) : H290 - May be corrosive to metals.
H302+H332 - Harmful if swallowed or if inhaled.
H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP)	:	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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. P501 - Dispose of contents/container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	:	EUH071 - Corrosive to the respiratory tract.
Extra phrases	:	For professional users only.

2.3. Other hazards

Contains no PBT and/or 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 substance(s) are 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

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
nitric acid …% [C ≤ 70 %] substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit	CAS-No.: 7697-37-2 EC-No.: 231-714-2 EC Index-No.: 007-030-00-3 REACH-no: 01-2119487297-23	≤ 30	Ox. Liq. 3, H272 Met. Corr. 1, H290 Acute Tox. 3 (Inhalation), H331 (ATE=2,65 mg/l/4h) Skin Corr. 1A, H314 Eye Dam. 1, H318 EUH071
ammonium bifluoride; ammonium hydrogen difluoride	CAS-No.: 1341-49-7 EC-No.: 215-676-4 EC Index-No.: 009-009-00-4 REACH-no: 01-2119489180-38	≤ 10	Acute Tox. 3 (Oral), H301 (ATE=130 mg/kg bodyweight) Skin Corr. 1B, H314
Nitric acid aluminum salt	CAS-No.: 13473-90-0 EC-No.: 236-751-8 REACH-no: 01-2119901411-56	≤ 9	Eye Dam. 1, H318
Calcium nitrate	CAS-No.: 10124-37-5 EC-No.: 233-332-1 REACH-no: 01-2119495093-35	≤ 2	Acute Tox. 4 (Oral), H302 (ATE=300 mg/kg bodyweight) Eye Dam. 1, H318

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
nitric acid …% [C ≤ 70 %]	CAS-No.: 7697-37-2 EC-No.: 231-714-2 EC Index-No.: 007-030-00-3 REACH-no: 01-2119487297-23	(5 ≤ C < 20) Skin Corr. 1B; H314 (20 ≤ C ≤ 100) Skin Corr. 1A; H314 (65 ≤ C ≤ 100) Ox. Liq. 3; H272

Specific concentration limits:		
Name	**Product identifier**	**Specific concentration limits (%)**
ammonium bifluoride; ammonium hydrogen difluoride	CAS-No.: 1341-49-7 EC-No.: 215-676-4 EC Index-No.: 009-009-00-4 REACH-no: 01-2119489180-38	(0,1 ≤ C < 1) Skin Irrit. 2; H315 (0,1 ≤ C < 1) Eye Irrit. 2; H319 (1 ≤ C ≤ 100) Skin Corr. 1B; H314

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 : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a physician immediately. Call a doctor.

First-aid measures after skin contact : In case of skin contact, wash under running water for 1 minute and apply 10% Calcium Gluconate gel liberally until the pain subsides and seek medical attention immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. Seek medical attention if irritation develops.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

4.3. Indication of any immediate medical attention and special treatment needed

In case of skin contact, wash under running water for 1 minute and apply 10% Calcium Gluconate gel liberally until the pain subsides and seek medical attention immediately. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Firefighting instructions : Move containers from fire area if it can be done without personal risk. Use standard firefighting procedures and consider the hazards of other involved materials.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment : Wear appropriate protective equipment and clothing during clean-up.

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

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".
Emergency procedures	:	Evacuate unnecessary personnel. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	:	For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Following product recovery, flush area with water. Take up small spills with dry chemical absorbent. Clean surface thoroughly to remove residual contamination.
Other information	:	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For disposal of contaminated materials refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Avoid prolonged exposure. Handle in accordance with good industrial hygiene and safety procedures.
Hygiene measures	:	Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up. Store in a well-ventilated place. Keep cool. Keep container closed when not in use.
Incompatible materials	:	Metals.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

nitric acid …% [C ≤ 70 %] (7697-37-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Nitric acid
IOEL STEL	2,6 mg/m³
	1 ppm
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Belgium - Occupational Exposure Limits	
Local name	Acide nitrique # Salpeterzuur
OEL STEL	2,6 mg/m³
	1 ppm

nitric acid …% [C ≤ 70 %] (7697-37-2)	
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023

DNEL and PNEC

nitric acid …% [C ≤ 70 %] (7697-37-2)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	2,6 mg/m³
Long-term - local effects, inhalation	2,6 mg/m³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	1,3 mg/m³
Long-term - local effects, inhalation	1,3 mg/m³

ammonium bifluoride; ammonium hydrogen difluoride (1341-49-7)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	3,8 mg/m³
Long-term - systemic effects, inhalation	2,3 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, oral	0,015 ng/kg bodyweight/day
Long-term - systemic effects,oral	0,015 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,045 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	1,3 mg/l
PNEC (Soil)	
PNEC soil	22 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	76 mg/l

Nitric acid aluminum salt (13473-90-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0,34 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,5 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0,2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,12 mg/m³
Long-term - systemic effects, dermal	0,2 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,0003 mg/l
PNEC aqua (marine water)	0,00003 mg/l
PNEC aqua (intermittent, freshwater)	0,00075 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,0025 mg/kg dwt
PNEC sediment (marine water)	0,00025 mg/kg dwt

Nitric acid aluminum salt (13473-90-0)	
PNEC (Soil)	
PNEC soil	0,00032 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	20 mg/l

Calcium nitrate (10124-37-5)	
DNEL/DMEL (General population)	
Acute - systemic effects, oral	10 mg/kg bodyweight/day
PNEC (STP)	
PNEC sewage treatment plant	18 mg/l

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protection equipment

Personal protective equipment symbol(s):

Eye and face protection

Eye protection:
Use eye protection according to EN 166. Safety glasses with side shields.

Skin protection

Skin and body protection:
Wear suitable protective clothing

Hand protection:
Wear suitable gloves tested to EN374. The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. VITON gloves.

Respiratory protection

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Approved organic vapour respirator. ABEK

Thermal hazards

Thermal hazard protection:
Not expected to present a significant hazard under anticipated conditions of normal use. Wear appropriate thermal protective clothing, when necessary.

Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid

Colour	:	Colourless.
Appearance	:	Paste.
Odour	:	Characteristic. Acid.
Odour threshold	:	Not available
Melting point	:	0 °C
Freezing point	:	Not available
Boiling point	:	100 – 120 °C
Flammability	:	Non flammable.
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	Not available
Auto-ignition temperature	:	> 200 °C
Decomposition temperature	:	Not available
pH	:	1,5
Viscosity, kinematic	:	75188 mm²/s at 40 °C
Viscosity, dynamic	:	100000 mPa·s
Solubility	:	soluble in water.
Partition coefficient n-octanol/water (Log Kow)	:	Not applicable
Vapour pressure	:	2,33 kPa at 20 °C
Vapour pressure at 50°C	:	Not available
Density	:	1,33 kg/l
Relative density	:	Not available
Relative vapour density at 20°C	:	Not available
Particle characteristics	:	Not applicable

9.2. Other information

Other safety characteristics

Relative evaporation rate (butylacetate=1)	:	0,3
VOC content	:	0 g/l

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

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Avoid temperatures exceeding the flash point.

10.5. Incompatible materials

metals. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

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

Acute toxicity (oral)	:	Harmful if swallowed.
Acute toxicity (dermal)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	:	Inhalation:vapour: Harmful if inhaled.

INOX WELD KLEEN	
ATE CLP (oral)	1196,319 mg/kg bodyweight
ATE CLP (vapours)	12,045 mg/l/4h

nitric acid …% [C ≤ 70 %] (7697-37-2)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	> 2,65 mg/l/4h

ammonium bifluoride; ammonium hydrogen difluoride (1341-49-7)	
LD50 oral rat	130 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	> 50 mg/l/4h

Nitric acid aluminum salt (13473-90-0)	
LD50 oral rat	2063 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg bodyweight
LC50 Inhalation - Rat	> 50 mg/l/4h

Calcium nitrate (10124-37-5)	
LD50 oral rat	300 – 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight

Skin corrosion/irritation : Causes severe skin burns.
pH: 1,5

Nitric acid aluminum salt (13473-90-0)	
pH	2 – 4

Serious eye damage/irritation : Causes serious eye damage.
pH: 1,5

Nitric acid aluminum salt (13473-90-0)	
pH	2 – 4

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

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

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

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

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

nitric acid …% [C ≤ 70 %] (7697-37-2)	
NOAEL (oral, rat, 90 days)	1500 mg/kg bodyweight
NOAEC (inhalation, rat, gas, 90 days)	2,15 ppm

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

INOX WELD KLEEN	
Viscosity, kinematic	75188 mm²/s at 40 °C

Nitric acid aluminum salt (13473-90-0)	
Viscosity, kinematic	0,778 mm²/s

11.2. Information on other hazards

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 substance(s) are 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 12: Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

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)

nitric acid …% [C ≤ 70 %] (7697-37-2)	
LC50 - Fish [1]	1559 mg/l
LC50 - Fish [2]	1354 mg/l

ammonium bifluoride; ammonium hydrogen difluoride (1341-49-7)	
LC50 - Fish [1]	421,4 mg/l

Calcium nitrate (10124-37-5)	
LC50 - Fish [1]	1378 mg/l Poecilia reticulata
EC50 - Crustacea [1]	490 mg/l Daphnia magna (Water flea)

12.2. Persistence and degradability

INOX WELD KLEEN	
Persistence and degradability	Not established. No data is available on the degradability of this product.

12.3. Bioaccumulative potential

INOX WELD KLEEN	
Partition coefficient n-octanol/water (Log Kow)	Not applicable

nitric acid …% [C ≤ 70 %] (7697-37-2)	
Partition coefficient n-octanol/water (Log Pow)	-2,3

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

INOX WELD KLEEN	
Results of PBT assessment	Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH 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 substance(s) are 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

INOX WELD KLEEN	
Other information	No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

European List of Waste (LoW, EC 2000/532) : According to the European Waste Catalogue (EWC), Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3264	UN 3264	UN 3264	UN 3264	UN 3264
14.2. UN proper shipping name				
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid)	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid)
Transport document description				
UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid), 8, II, (E)	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid), 8, II	UN 3264 Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid), 8, II	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid), 8, II	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid), 8, II
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-A EmS-No. (Spillage): S-B	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

ADR	IMDG	IATA	ADN	RID
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)	:	C1
Special provisions (ADR)	:	274
Limited quantities (ADR)	:	1l
Excepted quantities (ADR)	:	E2
Packing instructions (ADR)	:	P001, IBC02
Mixed packing provisions (ADR)	:	MP15
Portable tank and bulk container instructions (ADR)	:	T11
Portable tank and bulk container special provisions (ADR)	:	TP2, TP27
Tank code (ADR)	:	L4BN
Tank special provisions (ADR)	:	TU42
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	2
Hazard identification number (Kemler No.)	:	80
Orange plates	:	
Tunnel restriction code (ADR)	:	E

Transport by sea

Special provisions (IMDG)	:	274
Limited quantities (IMDG)	:	1 L
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC02
Tank instructions (IMDG)	:	T11
Tank special provisions (IMDG)	:	TP2, TP27
Stowage category (IMDG)	:	B
Stowage and handling (IMDG)	:	SW2
Segregation (IMDG)	:	SGG1, SG36, SG49
Properties and observations (IMDG)	:	Causes burns to skin, eyes and mucous membranes.

Air transport

PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y840
PCA limited quantity max net quantity (IATA)	:	0.5L
PCA packing instructions (IATA)	:	851
PCA max net quantity (IATA)	:	1L
CAO packing instructions (IATA)	:	855
CAO max net quantity (IATA)	:	30L
Special provisions (IATA)	:	A3, A803
ERG code (IATA)	:	8L

Inland waterway transport

Classification code (ADN)	:	C1
Special provisions (ADN)	:	274
Limited quantities (ADN)	:	1 L
Excepted quantities (ADN)	:	E2
Carriage permitted (ADN)	:	T
Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	0

Rail transport

Classification code (RID)	:	C1
Special provisions (RID)	:	274

Limited quantities (RID)	:	1L
Excepted quantities (RID)	:	E2
Packing instructions (RID)	:	P001, IBC02
Mixed packing provisions (RID)	:	MP15
Portable tank and bulk container instructions (RID)	:	T11
Portable tank and bulk container special provisions (RID)	:	TP2, TP27
Tank codes for RID tanks (RID)	:	L4BN
Special provisions for RID tanks (RID)	:	TU42
Transport category (RID)	:	2
Colis express (express parcels) (RID)	:	CE6
Hazard identification number (RID)	:	80

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

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 (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items: Ammonium hydrogen fluoride or ammonium bifluoride (1341-49-7).

VOC Directive (2004/42)

VOC content : 0 g/l

Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)
ANNEX I RESTRICTED EXPLOSIVES PRECURSORS
List of substances which are not to be made available to, or introduced, possessed or used by, members of the general public, whether on their own or in mixtures or substances that include those substances, unless the concentration is equal to or lower than the limit values set out in column 2, and for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS-No.	Limit value	Upper limit value for licensing under Article 5(3)	Combined Nomenclature (CN) code for a separate chemically defined compound meeting the requirements of Note 1 to Chapter 28 or 29 of the CN, respectively	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Nitric acid	7697-37-2	3 % w/w	10% w/w	ex 2808 00 00	ex 3824 99 96

ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS-No.	Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Calcium nitrate	10124-37-5	ex 2834 29 80	ex 3824 99 96

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)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes		
Section	**Changed item**	**Comments**
4	First-aid measures after skin contact	

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

Abbreviations and acronyms:	
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
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 disruptor

Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Ox. Liq. 3	Oxidising Liquids, Category 3
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.

Full text of H- and EUH-statements:	
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
EUH071	Corrosive to the respiratory tract.