SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 27-May-2025 **Revision Number** 1

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

1.1. Product identifier

Product Name Osmocote 5; 16-8-12+2.2MgO+TE

Product Code(s) 8875-225HA

Unique Formula Identifier (UFI) HYJS-J055-Y00T-D8AJ

Pure substance/mixture Mixture

Contains Potassium sulphate; K_2SO_4

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

Recommended use Fertilizer
Restricted to professional users

Uses advised against Consumer use
Uses other than those recommended.

Reason why uses advised against Use advised against in Chemical Safety Assessment per REACH Annex I point 7 2.3

1.3. Details of the supplier of the safety data sheet

Supplier
Everris International BV
Nijverheidsweg 1-5; 6422 PD Heerlen
Netherland : +31 (0) 45-5609100; Fax: +31 (0) 45-5609190.
Email: info-RA@ICL-group.com
E-mail address INFO-RA@ICL-GROUP.COM

Non-Emergency Telephone Number +31 (0) 418655700

1.4. Emergency telephone number

Emergency Telephone **IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24/7)**

Europe	112
Austria	+43 1 406 43 43
Belgium	+32 (0) 70 245 245
Denmark	+45 8212 1212
Finland	0800 147 111
France	+33 (0)1 45 42 59
Ireland	01 809 2566
Italy	+39 02 575421, +39 085 49754229
Netherlands	088 755 8000 (24/7)
Norway	+47 22 59 13 00
Poland	+48 42 2538 400
Portugal	+351 800 250 250
Spain	+34 91 562 04 20
Sweden	112
Switzerland	Tox Info SW 145 (24h)
United Kingdom	+44 (0) 1270 502891 (24 Hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage	Category 1 - (H318)

2.2. Label elements

Contains Potassium sulphate; K_2SO_4

Signal word
Danger

Hazard statements
H318 - Causes serious eye damage

Precautionary Statements - EU (§28, 1272/2008)
P280 - Wear eye and face protection
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

0 % of the mixture consists of ingredient(s) of unknown acute toxicity.
0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

Unknown aquatic toxicity
Contains 6 % of components with unknown hazards to the aquatic environment.

Additional information
This product is subject to Explosives Precursors Marketing and Use (2019/1148). Acquisition, introduction, possession or use of this product by the general public is restricted.

2.3. Other hazards

This product contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent andvery bioaccumulative (vPvB) at concentrations of >= 0.1%.

PBT & vPvB The product does not contain any substance(s) classified as PBT or vPvB.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No. (Index No.)	CAS No.	Weight-%	Classification according to Regulation	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number	Notes

				(EC) No. 1272/2008 [CLP]					
Ammonium nitrate	229-347-8	6484-52-2	40 - 50%	Ox.Sol.3 (H272); Eye Irrit.2 (H319)	-	-	-	01-2119490981-27	
Potassium sulphate; K_2SO_4	Not Listed	7778-80-5	5 - 10%	Eye dam. 1 (H318)	-	-	-	01-2119489441-34	

*The exact percentage (concentration) of composition has been withheld as a trade secret

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

Acute Toxicity Estimate
If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Ammonium nitrate 6484-52-2	2217	5000	0.527		
Potassium sulphate; K_2SO_4 7778-80-5	6600	2000			

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth
Never give anything by mouth to an unconscious person
Do NOT induce vomiting
Call a physician

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms Burning sensation.

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

Note to physicians Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical May emit toxic and irritating fumes under fire conditions.

Hazardous combustion products Carbon oxides. Phosphorus oxides. Ammonia. NOx.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Cool containers with water spray. Contain runoff to prevent entry into water or drainage systems.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8. Prevent entry into waterways, sewers, basements or confined areas.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

German storage class (TRGS 510) Storage class 5.1C - Ammonium nitrate and preparations containing ammonium nitrate

7.3. Specific end use(s)

Specific use(s) See Section 1.2 for more information.

Exposure scenario Mixture. Not required.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Ammonium nitrate 6484-52-2	-	-	-	-	-
Potassium sulphate; K_2SO_4 7778-80-5	-	-	-	TWA: 10.0 mg/m³	-
Chemical name	**Cyprus**	**Czech Republic**	**Denmark**	**Estonia**	**Finland**
Ammonium nitrate 6484-52-2	-	TWA: 10.0 mg/m³	-	-	-
Potassium sulphate; K_2SO_4 7778-80-5	-	-	-	-	-
Chemical name	**France**	**Germany TRGS**	**Germany DFG**	**Greece**	**Hungary**
Ammonium nitrate 6484-52-2	-	-	-	-	-
Potassium sulphate; K_2SO_4 7778-80-5	-	-	-	-	-
Chemical name	**Ireland**	**Italy MDLPS**	**Italy AIDII**	**Latvia**	**Lithuania**
Ammonium nitrate 6484-52-2	-	-	-	-	-
Potassium sulphate; K_2SO_4 7778-80-5	-	-	-	TWA: 10 mg/m³	TWA: 10 mg/m³
Chemical name	**Luxembourg**	**Malta**	**Netherlands**	**Norway**	**Poland**
Ammonium nitrate 6484-52-2	-	-	-	-	-
Potassium sulphate; K_2SO_4 7778-80-5	-	-	-	-	-
Chemical name	**Portugal**	**Romania**	**Slovakia**	**Slovenia**	**Spain**
Ammonium nitrate 6484-52-2	-	-	-	-	-
Potassium sulphate;	-	-	-	-	-

K_2SO_4 7778-80-5					

Chemical name	Sweden	Switzerland	United Kingdom
Ammonium nitrate 6484-52-2	-	-	-
Potassium sulphate; K_2SO_4 7778-80-5	-	-	-

Note See section 16 for terms and abbreviations

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Manganese disodium EDTA trihydrate 15375-84-5		Check 20 µg/L (blood - whole blood not provided) (-)			
Calcium fluoride 7789-75-5		Check 4 mg/g Creatinine (urine - before following shift) 7 mg/g Creatinine (urine - immediately after exposure or end of the shift)		8 mg/g Creatinine - urine (Fluorides) - at the end of the work shift 4.0 mg/g Creatinine - urine (Fluorides) - before the start of the work shift in the middle of the week	

DNELs for workers

Chemical name	Acute - local effects	Acute - systemic effects	Long term Local effects	Long term systemic effects
Ammonium nitrate 6484-52-2	-	-	-	5.12 mg/kg bw/day (dermal) 36 mg/m³ (inhalation)
Potassium sulphate; K_2SO_4 7778-80-5	-	-	-	-

DNELs for the general population

Chemical name	Acute - local effects	Acute - systemic effects	Long term Local effects	Long term systemic effects
Ammonium nitrate 6484-52-2	-	-	-	2.56 mg/kg bw/day (oral) 2.56 mg/kg bw/day (dermal) 8.9 mg/m³ (inhalation)
Potassium sulphate; K_2SO_4 7778-80-5	-	-	-	-

Predicted No Effect Concentration (PNEC)

Chemical name	Water	Sediment	Soil	Impact on Sewage Treatment	Oral
Ammonium nitrate 6484-52-2	-	-	-	18 mg/l	-
Potassium sulphate; K_2SO_4 7778-80-5	-	-	-	-	-

8.2. Exposure controls

Engineering controls	Eyewash stations. Showers. Ventilation systems.

Personal protective equipment

Eye/face protection	Tight sealing safety goggles.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required
Hand protection	Wear suitable gloves
Skin and body protection	Wear suitable protective clothing.
Environmental exposure controls	Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Granules
Color	Brown, red
Odor	Fertilizer.

Property	**Values**	**Remarks • Method**
Melting point / freezing point	No data available	None known
Boiling point or initial boiling point and boiling range	No data available	None known
Flammability	No data available	None known
Lower and upper explosion limit/flammability limit		None known
Lower explosion limit	No data available	
Upper explosion limit	No data available	
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
SADT (°C)		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Solubility	No data available	None known
Water solubility	No data available	None known
Partition coefficient n-octanol/water (log value)	No data available	None known
Vapor pressure	No data available	None known
Density and/or relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not applicable

9.2.2. Other safety characteristics No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No reactive hazards known/expected.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data
Sensitivity to mechanical impact Not sensitive.
Sensitivity to static discharge Not sensitive.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. May cause irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness.

Acute toxicity Based on available data, the classification criteria are not met.

Numerical measures of toxicity
The following ATE values have been calculated for the mixture
ATEmix (oral) 5,914.90 mg/kg

ATEmix (dermal)	38,558.20	mg/kg
ATEmix (inhalation-gas)	99,999.00	ppm
ATEmix (inhalation-dust/mist)	99,999.00	mg/l
ATEmix (inhalation-vapor)	99,999.00	mg/l

Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium nitrate	= 2950 mg/kg (Rat)	>5000 mg/kg (Rat)	> 0.527 mg/L (Rat) 4 h
Potassium sulphate; K_2SO_4	= 6600 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Causes serious eye damage.

Respiratory or skin sensitization No information available

Germ cell mutagenicity No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
Ammonium nitrate	-
Potassium sulphate; K_2SO_4	-

Reproductive toxicity No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

STOT - single exposure No information available.

STOT - repeated exposure No information available

Aspiration hazard Not expected.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicity Contains 6 % of components with unknown hazards to the aquatic environment.

Component Information

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ammonium nitrate	EC50: >1700 mg/L (10d, seawater, Read-across)	LC50: 447mg/L (48h, Cyprinus carpio)	EC50: >1000 mg/L (3h, Activated sludge, Read across); NOEC: 180mg/l	EC50: =490mg/L (48h, Daphnia magna, Read across)
Potassium sulphate; K_2SO_4	EC50: =2900mg/L (72h, Desmodesmus subspicatus)	LC50: =653mg/L (96h, Lepomis macrochirus) LC50: =3550mg/L (96h, Lepomis macrochirus) LC50: 510 - 880mg/L (96h, Pimephales promelas)	-	EC50: =890mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product

Component Information

Chemical name	Partition coefficient
Ammonium nitrate	-3.1
Potassium sulphate; K_2SO_4	-

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment Based on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
Ammonium nitrate	Not PBT/vPvB
Potassium sulphate; K_2SO_4	Not PBT/vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

12.7. Other adverse effects

Other adverse effects No information available.
PMT or vPvM properties Based on available data, the classification criteria are not met.

Chemical name	PMT and vPvM assessment
Ammonium nitrate	Not determined

Chemical name	PMT and vPvM assessment
Potassium sulphate; K_2SO_4	Not determined

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of waste in accordance with environmental legislation.

Contaminated packaging Dispose of wastes in an approved waste disposal facility. Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number UN2071
14.2 UN proper shipping name Ammonium nitrate fertilizers
14.3 Transport hazard class(es) 9
14.4 Packing group III
Description: UN2071, Ammonium nitrate fertilizers, 9, III
14.5 Environmental hazards No
14.6 Special precautions for user
Special Provisions A90

IMDG

14.1 UN number or ID number UN2071
14.2 UN proper shipping name Ammonium nitrate based fertilizer
14.3 Transport hazard class(es) 9
14.4 Packing group III
Description: UN2071, Ammonium nitrate based fertilizer, 9, III
14.5 Marine pollutant Not applicable
14.6 Special precautions for user
Special Provisions 186, 193
EmS-No. F-H, S-Q
14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN number or ID number UN2071
14.2 UN proper shipping name Ammonium nitrate based fertilizer
14.3 Transport hazard class(es) 9
14.4 Packing group Not regulated
Description: UN2071, Ammonium nitrate based fertilizer, 9
14.5 Environmental hazards No
14.6 Special precautions for user
Special Provisions 193
Classification code M11

ADR

14.1 UN number or ID number UN2071
14.2 UN proper shipping name Ammonium nitrate based fertilizer
14.3 Transport hazard class(es) 9
14.4 Packing group Not regulated
Description: UN2071, Ammonium nitrate based fertilizer, 9
14.5 Environmental hazards No
14.6 Special precautions for user
Special Provisions 193
Classification code M11

ADN

14.1 UN number or ID number UN2071
14.2 EPNN Ammonium nitrate based fertilizer
14.3 Transport hazard class(es) 9
14.4 Packing group Not regulated
Description: UN2071, Ammonium nitrate based fertilizer, 9
14.5 Environmental hazard No
14.6 Special precautions for user
Special Provisions 193
Classification code M11
Equipment Requirements PP

SECTION 15: Regulatory information

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

National regulations

Denmark
Sikkerhedsgruppe DK B

France
ICPE Classified installation: article .?
Occupational Illnesses (R-463-3, France)

Germany
TRGS 511 .?
Water hazard class (WGK) **slightly hazardous to water (WGK 1)**

Chemical Prohibition Ordinance (ChemVerbotsV)
Not applicable

TA Luft (German Air Pollution Control Regulation)

TRGS 905 Not applicable

Netherlands
Carcinogenic, mutagenic and reproductive toxic effects

Switzerland
Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018 Not applicable
Storage of Hazardous Material SC 8
WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20 Not applicable
Major Accidents Ordinance SR 814.012 Not applicable

Chemical name	Threshold quantity
Ammonium nitrate 6484-52-2	-
Potassium sulphate; K_2SO_4 7778-80-5	-

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 94/33/EC on the protection of young people at work

Not to be used by professional users below 18 years of age, see the National Working Environment Authorities Executive Order on young peoples dangerous work.

Authorizations and/or restrictions on use:
This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Ammonium nitrate - 6484-52-2	Use restricted. See entry 58.	-
Potassium sulphate; K_2SO_4 - 7778-80-5	-	-

Persistent Organic Pollutants
Not applicable

Named dangerous substances per Seveso Directive (2012/18/EU)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Ammonium nitrate - 6484-52-2	5000	10000

Ozone-depleting substances (ODS) Regulation (EU) 2024/590
Not applicable

EU - Plant Protection Products (1107/2009/EC)

Biocidal Products Regulation (EU) No 528/2012 (BPR)

Explosives Precursors Marketing and Use (2019/1148)
Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see
https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives_en

Chemical name	Limit value	Upper limit value for the purpose of licensing under article 5(3)	Reportable explosives precursors
Ammonium nitrate 6484-52-2	16 %w/w	-	-
Potassium sulphate; K_2SO_4 7778-80-5	-	-	-

International Inventories
GHS hazardous component CAS registry numbers appearing in section 3 may differ from substances appearing in section 15 due to country or regional chemical inventory coverage requirements, however, remain in compliance with the inventory
Products that are used as food additives are exempt from listing in international chemical inventories

TSCA	Not Listed
DSL	Not Listed
ENCS	Not Listed
IECSC	Not Listed
KECL	Not Listed
PICCS	Not Listed
TCSI	Not Listed
AIIC	Not Listed
NZIoC	Not Listed
NCI	Not Listed
NSQ	Not Listed
TECI	Not Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing Chemicals Inventory
PICCS - Philippines Inventory of Chemicals and Chemical Substances
TCSI - Taiwan Chemical Substance Inventory
AIIC - Australian Inventory of Industrial Chemicals
NCI - Vietnam National Chemicals Inventory
NSQ - Mexico National Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
TECI - Thailand Inventory FDA Existing Chemicals

15.2. Chemical safety assessment

Chemical Safety Report Substance(s) usage is covered according to Reach regulation 1907/2006.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of any hazard and/or precautionary statements referred to under Sections 2-15
H272 - May intensify fire; oxidizer
H302 - Harmful if swallowed
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H360FD - May damage fertility. May damage the unborn child
P280 - Wear protective gloves, protective clothing, eye protection and face protection
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
Legend

ACGIH	American Conference of Governmental Industrial Hygienists
AIDII	Italian Association of Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CLP	Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DFG	German Research Foundation
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
ECHA	European Chemicals Agency
EC Number	European Community number
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	Environmental Protection Agency
EWC	European Waste Codes
GHS	Globally Harmonized System

IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organization
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MAL	Measuring Technical Hygienic Air Needs
MARPOL	International Convention for the Prevention of Pollution from Ships
MDLPS	Ministry of Labor and Social Policy
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
REACH	Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
SVHC	Substance of very high concern
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TRGS	Technical Rule for Hazardous Substances
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption

Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

Classification procedure
Calculation method
Expert judgment and weight of evidence determination

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Chronic aquatic toxicity	Calculation method
Acute aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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Revision Note The symbol (***) in the margin of this SDS indicates that this line has been revised

Restrictions on use For professional users only

Training Advice Adequate training is required before industrial or professional use

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008

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End of Safety Data Sheet

Europe Full process, including GHS and Transportation Wizards

REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors
Not applicable

Chemical name	REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors
Ammonium nitrate - 6484-52-2	16 %w/w limit value

Chemical name	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)
Ammonium nitrate	Ox.Sol.3 (H272); Eye Irrit.2 (H319)	
Potassium sulphate; K_2SO_4	Eye dam. 1 (H318)	