

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 12/24/2024 Supersedes: 2/17/2022 Version: 2.7

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : International Plant Food 5-10-30
Product code : I000015, I000016, I000154, I000213

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Fertilizer Recommended use : Fertilizers

1.3. Supplier

Rainbow Fertilizer LLC, a division of TIMAC AGRO USA, Inc.

1011 Oak Avenue

Americus, GA 31709, Georgia 31719

USA

T 1-800-763-0334

www.rainbowplantfood.com

1.4. Emergency telephone number

Country/Area	Organization/Company	Address	Emergency number	Comment
Americas	3E		+1-760-476-3962 (Access code : 333021)	(24/7)
USA	USA POISON CONTROL CENTER (24h/7d)		1-800-222-1222	

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 2 H315 Causes skin irritation
Serious eye damage/eye irritation Category 2 H319 Causes serious eye irritation
Causes serious eye irritation

Reproductive toxicity Category 2 H361 Suspected of damaging fertility or the unborn child

Specific target organ toxicity (repeated exposure) Category 2 H373 May cause damage to organs through prolonged or repeated

exposure

Full text of H statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)





Signal word (GHS US) : Warning

Hazard statements (GHS US) : H315 - Causes skin irritation

H319 - Causes serious eye irritation

H361 - Suspected of damaging fertility or the unborn child

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

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Precautionary statements (GHS US)

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

P260 - Do not breathe dust.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P302+P352 - If on skin: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
Potassium chloride		CAS-No.: 7447-40-7	50-75	Not classified
Monoammonium phosphate		CAS-No.: 7722-76-1	10 – 25	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
Calcium sulphate, dihydrate		CAS-No.: 10101-41-4	5 – 10	Not classified
Manganese hydrogen phosphate		CAS-No.: 51349-94-1	1 – 5	Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Chronic 3, H412
Manganese oxide		CAS-No.: 1344-43-0	1 – 5	Not classified
disodium tetraborate pentahydrate, borax pentahydrate		CAS-No.: 1330-43-4	< 1	Eye Irrit. 2A, H319 Repr. 2, H361
Colemanite		CAS-No.: 1318-33-8	< 1	Repr. 2, H361

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general

First-aid measures after inhalation

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First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion

: IF exposed or concerned: Get medical advice/attention.

: Remove person to fresh air and keep comfortable for breathing. Seek medical attention if ill effect develops.

: Take off contaminated clothing. Wash skin with plenty of water. Get medical advice/attention.

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting without medical advice. Seek medical attention if ill effect develops.

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4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : see section(s): 2.1/2.3).

Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation

exposure.

Symptoms/effects after ingestion : None under normal conditions.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : water, carbon dioxide (CO2), powder and foam. Use extinguishing media appropriate for

surrounding fire. Water spray. Dry powder. Foam.

Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable. Non oxidizing material.

Explosion hazard : No direct explosion hazard.

Hazardous decomposition products in case of fire : Thermal decomposition generates : fume.

5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire : Evacuate area. Eliminate all ignition sources if safe to do so.

Firefighting instructions : Contain the extinguishing fluids by bunding. Do not enter fire area without proper protective

equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Complete protective

clothing. EN 469. Self-contained breathing apparatus.

Other information : Relevant water authorities should be notified of any large spillage to water course or drain.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Notify authorities if product enters sewers or public waters.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Do not breathe dust. Mechanically ventilate the spillage area. Only qualified personnel equipped

with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area. Dike and contain spill. Evacuate unnecessary personnel.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product. Minimize generation of dust. Gather the product and place it in

a spare container that has been suitably labeled.

Other information : Dispose of materials or solid residues at an authorized site.

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6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe dust. Avoid contact with skin and

eyes.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Always wash hands after

handling the product. Do not eat, drink or smoke when using this product. Wash contaminated

clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in dry, cool, well-ventilated area. Protect from moisture. Keep out of reach of children.

Incompatible products : Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.

Storage temperature : Store at ambient temperature

Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

Special rules on packaging : Keep only in original container. Store in a closed container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Local name

Potassium chloride (7447-40-7)		
JSA - OSHA - Occupational Exposure Limits		
Local name	Total Dust (Inert or Nuisance Dust)	
OSHA PEL TWA	10 mg/m³ (dust)	
	50 mppcf	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts	
Calcium sulphate, dihydrate (10101-41-4)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Calcium sulfate, the diihydrate	
ACGIH OEL TWA	10 mg/m³ (I - Inhalable particulate matter)	
Remark (ACGIH)	TLV® Basis: Nasal symptoms	
Regulatory reference	ACGIH 2024	
USA - OSHA - Occupational Exposure Limits		
Local name	Calcium sulfate	
OSHA PEL TWA	15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
disodium tetraborate pentahydrate, borax pentahydrate (1330-43-4)		
JSA - ACGIH - Occupational Exposure Limits		

Sodium tetraborate, anhydrate

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lisodium tetraborate pentahydrate, borax pentahydrate (1330-43-4)	
ACGIH OEL TWA	2 mg/m³ (I - Inhalable particulate matter)
ACGIH OEL STEL	6 mg/m³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2024
Colemanite (1318-33-8)	
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	10 mg/m³
Manganese oxide (1344-43-0)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	5 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Local exhaust and general ventilation must be adequate to meet exposure standards.

Environmental exposure controls : Assure that emissions are compliant with all applicable air pollution control regulations. Comply with applicable regulations. Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:		
Protective gloves		
Eye protection: Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product. Safety glasses		
Safety goggles	Dust	With side shields
Skin and body protection:		
Protective clothing		
Туре		
Gloves		
Respiratory protection:		
Where excessive dust may result, wear approved mask		
Device	Filter type	Condition
Dust mask	Type P2	Dust protection

Personal protective equipment symbol(s):







Other information:

See Heading 7: 7.1. Precautions for safe handling.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Granulate.
Color : Gray
Odor : Odorless
Odor threshold : No data available

pH : 6

pH : 6
pH solution concentration : 10 %

Melting point : No data available
Freezing point : Not applicable
Boiling point : No data available
Flash point : Not applicable
Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : In case of excessive dust production : Dust may form flammable and explosive mixture with air.

Vapor pressure : No data available Relative vapor density at 20°C : No data available Relative density : No data available

Solubility : Soluble.

Partition coefficient n-octanol/water (Log Pow) : No data available
Auto-ignition temperature : Not applicable
Decomposition temperature : No data available
Viscosity, kinematic : Not applicable
Viscosity, dynamic : No data available
Explosion limits : Not applicable

Explosive properties : Product is not explosive.

Oxidizing properties : Non oxidizing material.

9.2. Other information

No additional information available

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 use and storage conditions as recommended in section 7.

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).

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire: See Heading 5.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects		
Acute toxicity (dermal) : Acute toxicity (inhalation) : Additional information :	Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation	
Potassium chloride (7447-40-7)		
LD50 oral rat	2600 mg/kg body weight Safety Data Sheet Supplier	
ATE US (oral)	2600 mg/kg body weight	
Monoammonium phosphate (7722-76-1)		
LD50 oral rat	> 2000 mg/kg (OECD 425 method)	
LD50 dermal rat	> 5000 mg/kg (OECD 402 method)	
LC50 Inhalation - Rat	> 5 mg/l (OECD Guideline 403 with diammonium hydrogenorthophosphate; EPA with calcium bis(dihydrogenorthophosphate))	
Calcium sulphate, dihydrate (10101-41-4)		
LD50 oral rat	> 1581 mg/kg body weight (OECD 420 method)	
LC50 Inhalation - Rat	> 2.61 mg/l (OECD 403 method)	
disodium tetraborate pentahydrate, borax per	ntahydrate (1330-43-4)	
LD50 oral rat	3200 – 3400 mg/kg body weight EPA (Environmental Protection Agency)	
LD50 dermal rabbit	> 2000 mg/kg body weight EPA (Environmental Protection Agency)	
LC50 Inhalation - Rat	> 2 mg/l (OECD 403 method)	
ATE US (oral)	3200 mg/kg body weight	
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Manganese oxide (1344-43-0)		
LD50 oral rat	> 2000 mg/kg (OECD 420 method)	
LC50 Inhalation - Rat	> 5.35 mg/l (OECD 403 method)	
Skin corrosion/irritation :	Causes skin irritation. pH: 6	
Monoammonium phosphate (7722-76-1)		
рН	3 – 5	
disodium tetraborate pentahydrate, borax per	ntahydrate (1330-43-4)	
рН	9.3	
•	Causes serious eye irritation. pH: 6	
Monoammonium phosphate (7722-76-1)		
рН	3 – 5	
disodium tetraborate pentahydrate, borax per	ntahydrate (1330-43-4)	
рН	9.3	
Respiratory or skin sensitization :	Not classified (Based on available data, the classification criteria are not met)	

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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 : Suspected of damaging fertility or the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Manganese hydrogen phosphate (51349-94-1)

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified Viscosity, kinematic : Not applicable

Monoammonium phosphate (7722-76-1)

Viscosity, kinematic Not applicable

Symptoms/effects : see section(s): 2.1/2.3).

Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation

exposure.

Symptoms/effects after ingestion : None under normal conditions.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Do not allow into drains or water courses.

Ecology - water : Do not allow large quantities, as are, to spread into the environment. Do not discharge into

drains or rivers.

Potassium	chloride	(7447-40-7)

LC50 - Fish [1]	96h 2010 mg/l Lepomis macrocirhus
EC50 - Crustacea [2]	337 – 825 mg/l
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Monoammonium phosphate (7722-76-1)

LC50 - Other aquatic organisms [1]	> 1700 mg/l Single Superphosphate
EC50 - Other aquatic organisms [1]	> 100 mg/l (OECD 201 method) Similar substances

Calcium sulphate, dihydrate (10101-41-4)

LC50 - Fish [1]	> 1970 mg/l Pimephales promelas
EC50 - Crustacea [1]	> 79 mg/l daphnia, (OECD 202 method)
ErC50 algae	> 79 mg/l Selenastrum capricornutum, (OECD 201 method)

disodium tetraborate pentahydrate, borax pentahydrate (1330-43-4)

LC50 - Fish [1]	96h - 74 mg/l Dab, Limanda limanda
EC50 - Crustacea [1]	24h - 242 mg/l Daphnids, Daphnia magna Straus
NOEC (chronic)	32d 11.2 mg/l EPA OPPTS 850.1400
LC50	88 mg/l (24 days)

Colemanite (1318-33-8)

LC50 - Fish [1]	B 178 mg/l Carassius auratus (goldfish)
EC50 - Crustacea [1]	B 133 mg/l
NOEC chronic fish	B 26.5 mg/l Carassius auratus (goldfish)

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Colemanite (1318-33-8)		
NOEC chronic crustacea	B > 6 mg/l	
12.2. Persistence and degradability		
International Plant Food 5-10-30		
Persistence and degradability	Not established.	
Potassium chloride (7447-40-7)		
Persistence and degradability	Rapidly degradable	
Monoammonium phosphate (7722-76-1)		
Persistence and degradability	Not established.	
Calcium sulphate, dihydrate (10101-41-4)		
Persistence and degradability	Not established.	
Manganese hydrogen phosphate (51349-94-1)		
Persistence and degradability	Rapidly degradable	
disodium tetraborate pentahydrate, borax pen	ntahydrate (1330-43-4)	
Persistence and degradability	Rapidly degradable	
Colemanite (1318-33-8)		
Persistence and degradability	Rapidly degradable	
Manganese oxide (1344-43-0)		
Persistence and degradability	Not established, Not relevant.	
12.3. Bioaccumulative potential		
International Plant Food 5-10-30		
Bioaccumulative potential	Not established.	
Potassium chloride (7447-40-7)		
Partition coefficient n-octanol/water (Log Pow)	Not applicable	
Partition coefficient n-octanol/water (Log Kow)	Not applicable	
Bioaccumulative potential	Low bioaccumulation potential. Data sources : Safety Data Sheet Supplier.	
Monoammonium phosphate (7722-76-1)		
Partition coefficient n-octanol/water (Log Pow)	Not applicable	
Partition coefficient n-octanol/water (Log Kow)	Not applicable	
Bioaccumulative potential	Low bioaccumulation potential. Data sources : Safety Data Sheet Supplier.	
Calcium sulphate, dihydrate (10101-41-4)		
Bioaccumulative potential	Bioaccumulation unlikely.	
Colemanite (1318-33-8)		
Bioaccumulative potential	Not potentially bioaccumulable.	

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Manganese oxide (1344-43-0)	
Bioaccumulative potential	Not established. Not relevant.

12.4. Mobility in soil

Potassium chloride (7447-40-7)	
cology - soil Low mobility (soil). Safety Data Sheet Supplier.	
Monoammonium phosphate (7722-76-1)	
Ecology - soil	Not applicable. Safety Data Sheet Supplier.
Calcium sulphate, dihydrate (10101-41-4)	
Ecology - soil	Small adsorption.
Colemanite (1318-33-8)	
Ecology - soil	Low mobility (soil). Poorly soluble in water.

12.5. Other adverse effects

Other adverse effects : May cause eutrophication at very low concentration.

Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation : Disposal must be done according to official regulations.

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

Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Discharging into rivers and drains is forbidden. Disposal must be done according to official

regulations.

Additional information : Do not re-use empty containers.

SECTION 14: Transport information

In accordance with DOT / TMD / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not regulated Proper Shipping Name (TDG) : Not regulated Proper Shipping Name (IMDG) : Not regulated Proper Shipping Name (IATA) : Not regulated

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not regulated

TDG

Transport hazard class(es) (TDG) : Not regulated

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IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group (DOT) : Not regulated Packing group (TDG) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Potassium chloride	7447-40-7	Present	Active	
Monoammonium phosphate	7722-76-1	Present	Active	
Calcium sulphate, dihydrate	10101-41-4	Present	Active	
Manganese hydrogen phosphate	51349-94-1	Not present	-	
disodium tetraborate pentahydrate, borax pentahydrate	1330-43-4	Present	Active	
Colemanite	1318-33-8	Present	Active	
Manganese oxide	1344-43-0	Present	Active	

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15.2. International regulations

CANADA

Potassium chloride (7447-40-7)

Listed on the Canadian DSL (Domestic Substances List)

Monoammonium phosphate (7722-76-1)

Listed on the Canadian DSL (Domestic Substances List)

Calcium sulphate, dihydrate (10101-41-4)

Listed on the Canadian DSL (Domestic Substances List)

Manganese hydrogen phosphate (51349-94-1)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

Colemanite (1318-33-8)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Manganese oxide (1344-43-0)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

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Ensure all national/local regulations are observed

Manganese oxide (1344-43-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

No additional information available

SECTION 16: Other information

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Data sources : Section 1.2, 8.1, 11 & 12 are based on components' Chemical Safety Report and/or datas from

components' supplie.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of hazard classes and H-statements	
H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation

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Full text of hazard classes and H-statements	
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

Abbreviations and acronyms	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
LC50	Median lethal concentration
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
SDS	Safety Data Sheet
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
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
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

NFPA health hazard

: 1 - Materials that, under emergency conditions, can cause significant

irritation.

NFPA fire hazard

: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire

conditions.

Hazard Rating Health Flammability

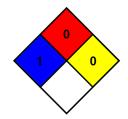
: 2 Moderate Hazard - Temporary or minor injury may occur

: 0 Minimal Hazard - Materials that will not burn 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

Physical react with water, polymerize, decompose, condense, or self-react. Non-Explosives. Personal protection

: E - Safety glasses, Gloves, Dust respirator

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.