

SECTION 1: Identification

1.1. Identification

Product form : Fertilizer
 Trade name : EXCELIS MAXX
 Name : EXCELIS MAXX
 Product code : EXCELISMAXX

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

Use of the substance/mixture : Fertilizer

1.3. Details of the supplier of the safety data sheet

TIMAC Agro USA, INC
 P.O. Box 888 - Route 724 & I-176
 READING, - USA
 T 1-800-545-5474
info-fds@roullier.com

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
	USA POISON CONTROL CENTER (24h/7d)		1-800-222-1222	
Europe/Middle-East/Africa	3E		+1-760-476-3961 (Access code : 333021)	(24/7)
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 4 H227 -
 Eye Dam. 1 H318 -
 Skin Sens. 1 H317 -
 Repr. 2 H361 -

Full text of H-statements: see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H227 - Combustible liquid
 H317 - May cause an allergic skin reaction
 H318 - Causes serious eye damage
 H361 - Suspected of damaging fertility or the unborn child (Dermal, Inhalation, oral)

Precautionary statements (GHS-US) : P202 - Do not handle until all safety precautions have been read and understood
 P280 - Wear face shield, protective clothing, protective gloves
 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 doctor, a POISON CENTER
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Oxygenated solvents		67 - 75	Flam. Liq. 4, H227
N-butylphosphorothioic triamide	(CAS No) 94317-64-3	12 - 25	Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361
dicyandiamide	(CAS No) 461-58-5	1 - 3	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Extractives and their physically modified derivatives. Allium sativum, Liliaceae	(CAS No) 8000-78-0	0.4 - 0.99	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Move to fresh air in case of accidental inhalation. Seek medical attention if ill effect develops.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Seek medical attention if ill effect or irritation develops.
First-aid measures after eye contact	: Rinse thoroughly and plentifully with water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist immediately, even if there are no immediate symptoms.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Go into open air and ventilate suspected area. Do not induce vomiting without medical advice. Seek medical advice (show the label where possible).

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

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

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: water, carbon dioxide (CO ₂), powder and foam.
Unsuitable extinguishing media	: Do not use straight streams.

5.2. Special hazards arising from the substance or mixture

Reactivity	: No study has been carried out for the moment on this mixture. By thermal decomposition, product may emit oxides of sulfur, phosphorus oxides (eg P ₂ O ₅), corrosive and toxic, ammonia. Nitrogen oxides. Carbon dioxide. Nitrous fumes.
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5.3. Advice for firefighters

Precautionary measures fire	: Keep away from combustible material. Comply with the safety procedures.
Firefighting instructions	: Use water moderately and if possible collect or contain it. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.
Specific methods	: Keep away from combustible materials. Use extinguishing media appropriate for surrounding fire.
Other information	: Avoid pouring fire water down the drains.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation. Eliminate every possible source of ignition. Avoid all contact with skin, eyes, or clothing. Wear personal protective equipment. Wear suitable respiratory equipment in case of insufficient ventilation. Keep away from combustible material.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing. Safety glasses. Protective gloves.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Do not attempt to take action without suitable protective equipment. Protective gloves. Wear suitable protective clothing and eye or face protection. Self-contained breathing apparatus.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth.
Methods for cleaning up : Mechanically recover the product. Wash away remainder with plenty of water. Scoop absorbed substance into closing containers. Do not allow into drains or water courses. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Other information : Avoid formation of vapours.

6.4. Reference to other sections

SECTION 13. SECTION 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid formation of vapours. Do not get in eyes, on skin, or on clothing. Wear suitable protective clothing, gloves and eye/face protection. Wear suitable respiratory equipment in case of insufficient ventilation. Do not eat, drink or smoke when using this product. Do not breathe gas, fumes, vapour or spray. Comply with applicable regulations. Always wash hands after handling the product. Handle and open container with care.
Hygiene measures : If on skin, take off contaminated clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke in areas where product is used. Shower after work using plenty of soap and water.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store locked up. Keep out of reach of children.
Storage conditions : Store in dry protected location to prevent any moisture contact. Keep only in the original container. Keep container closed when not in use.
Incompatible products : Refer to section 10 on incompatible materials.
Incompatible materials : combustible materials. Flammable materials.
Heat and ignition sources : Keep away from sources of ignition - No smoking.
Prohibitions on mixed storage : Keep away from food, drink and animal feeding stuffs.
Storage area : Keep out of frost. Store in dry, cool, well-ventilated area. Store away from heat/moisture. Remove ignition sources.
Special rules on packaging : Store in original container.
Packaging materials : Original packaging. plastic.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters


No additional information available

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8.2. Exposure controls

Personal protective equipment	: Protective clothing. Gloves. Safety glasses. Dust/aerosol mask with filter type P1.
	
Materials for protective clothing	: Wear suitable protective clothing. Polyvinylchloride (PVC).
Hand protection	: Wear suitable gloves. Chemical resistant PVC gloves (to European standard EN 374 or equivalent).
Eye protection	: Safety glasses. (according to standard EN 166).
Skin and body protection	: Rubber boots.
Respiratory protection	: Avoid formation of vapours. In case of insufficient ventilation, wear suitable respiratory equipment. Dust / anti-aerosol filter type P1 (according to standard EN 143).
Environmental exposure controls	: Keep container closed when not in use. Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
Other information	: Do not drink, eat or smoke in the workplace. If on skin, take off contaminated clothing. Wash hands after working with the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow
Odour	: characteristic
Odour threshold	: No data available
pH	: 9.2 - 9.8
Melting point	: < 10 °C
Freezing point	: < 10 °C
Boiling point	: 127 - 198 °C
Flash point	: 90 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: 1.1 - 10 vol %
Explosive properties	: No data available.
Oxidising properties	: No data available
Vapour pressure	: Not applicable
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Density	: 1.2 g/cm ³
Solubility	: Soluble in alcohols, ketones. Water: partly soluble
Log Pow	: No data available
Auto-ignition temperature	: 360 °C
Decomposition temperature	: > 200 °C
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

Minimum ignition energy	: No data available
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SECTION 10: Stability and reactivity

10.1. Reactivity

No study has been carried out for the moment on this mixture. By thermal decomposition, product may emit oxides of sulfur, phosphorus oxides (eg P2O5), corrosive and toxic, ammonia. Nitrogen oxides. Carbon dioxide. Nitrous fumes.

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10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No study has been carried out for the moment on this mixture.

10.4. Conditions to avoid

Heat. Freezing. Moisture.

10.5. Incompatible materials

oxidizing agents (peroxides, chromates, dichromates). Flammable or combustible materials. Chlorates. alkalis. Copper and copper alloys. Nitrites. Sodium hypochlorite.

10.6. Hazardous decomposition products

Sulphur dioxide. Carbon dioxide. Nitrogen oxides. Ammonia. Phosphorus oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

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Additional information	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

N-butylphosphorothioic triamide (94317-64-3)	
LD50 oral rat	2823 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
ATE US (oral)	2823.000 mg/kg bodyweight

Extractives and their physically modified derivatives. Allium sativum, Liliaceae (8000-78-0)	
ATE US (oral)	500.000 mg/kg bodyweight

dicyandiamide (461-58-5)	
ATE US (oral)	500.000 mg/kg bodyweight
ATE US (gases)	4500.000 ppmv/4h
ATE US (vapours)	11.000 mg/l/4h
ATE US (dust,mist)	1.500 mg/l/4h

Skin corrosion/irritation : 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)
pH: 9.2 - 9.8

Serious eye damage/irritation : Causes serious eye damage.
(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)
pH: 9.2 - 9.8

Respiratory or skin sensitisation : May cause an allergic skin reaction.
(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)

Germ cell mutagenicity : 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)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

Carcinogenicity : 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)

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IARC group	The principal components are not included in the I.A.R.C. list of carcinogenic substances.
N-butylphosphorothioic triamide (94317-64-3)	
IARC group	The principal components are not included in the I.A.R.C. list of carcinogenic substances.
Extractives and their physically modified derivatives. Allium sativum, Liliaceae (8000-78-0)	
IARC group	The principal components are not included in the I.A.R.C. list of carcinogenic substances.
dicyandiamide (461-58-5)	
IARC group	The principal components are not included in the I.A.R.C. list of carcinogenic substances.

Reproductive toxicity	: Suspected of damaging fertility or the unborn child (Dermal, Inhalation, oral). (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)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
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met)

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Additional information	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

Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met)
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Additional information	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

Aspiration hazard	: 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)
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No study has been carried out for the moment on this mixture. Based on available data, the classification criteria are not met. May cause eutrophication at very low concentration. Do not allow to enter drains or water courses.
Ecology - water	: Based on available data, the classification criteria are not met. May cause eutrophication at very low concentration. Do not allow to enter drains or water courses.

N-butylphosphorothioic triamide (94317-64-3)	
LC50 fish 1	1140 mg/l
EC50 Daphnia 1	290 mg/l (OECD 202 method)

12.2. Persistence and degradability

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Persistence and degradability	No study has been carried out for the moment on this mixture. Small adsorption.

12.3. Bioaccumulative potential

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Bioaccumulative potential	Bioaccumulation unlikely. No study has been carried out for the moment on this mixture.
N-butylphosphorothioic triamide (94317-64-3)	
Log Kow	0.444

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12.4. Mobility in soil

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Ecology - soil

No study has been carried out for the moment on this mixture.

12.5. Other adverse effects

- Other adverse effects : May cause eutrophication at very low concentration.
- Effect on the global warming : No known ecological damage caused by this product.
- Other information : No study has been carried out for the moment on this mixture.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point.
- Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
- Additional information : Disposal by incineration or reuse of the material through recycling after cleansing of product residues.
- Ecology - waste materials : Do not allow to enter drains or water courses.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT
Not regulated for transport

TDG

No additional information available

Transport by sea

Packing group (IMDG) : III - substances presenting low danger

Air transport

Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

Oxygenated solvents	CAS No	67 - 75%
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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

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15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Indication of changes	: This sheet was updated (refer to the date at the top of this page). Modified. Handling and storage. Stability and reactivity. Exposure controls/personal protection. Disposal considerations.
Revision date	: 05/04/2016
Data sources	: Data sources : Safety Data Sheet Manufacturer.
Abbreviations and acronyms	: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008. Acute Toxicity Estimate. Safety Data Sheet. International Air Transport Association. International Maritime Dangerous Goods. Median lethal dose. Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
Other information	: according to Regulation (EC) No. 1907/2006 (REACH). Classification according to Regulation (EC) No. 1272/2008 [CLP]. according to the United Nations GHS (Rev. 5, 2013).

Full text of H-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Liq. 4	Flammable liquids, Category 4
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
H226	Flammable liquid and vapour
H227	Combustible liquid
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H361	Suspected of damaging fertility or the unborn child

SDS US (GHS HazCom 2012)

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