

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : MAXIFRUIT
 Product code : AAFI23

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Manufacturer

TIMAC Agro España S.A.
 Polígono de Arazuri-Orcoyen, calle C, nº32
 ORCOYEN (NAVARRA), 31160 - España
 T +34 948 324 500 - F +34 948 324 032
info-fds@timacagro.es - www.timacagro.es

Distributor

TIMAC Agro USA, INC
 P.O. Box 888 - Route 724 & I-176
 P.O. Box PA 19607-0888
 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	
Americas	3E		+1-760-476-3962 (Access code : 333021)	(24/7)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture


GHS-US classification

Skin corrosion/irritation, Category 1A H314 Causes severe skin burns and eye damage.
 Serious eye damage/eye irritation, Category 1 H318 Causes serious eye damage.

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS-US) : 

Signal word (GHS-US) : Danger
 Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage.
 H318 - Causes serious eye damage.
 Precautionary statements (GHS-US) : P260 - Do not breathe spray, vapours.
 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/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 doctor, a POISON CENTER

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
potassium hydroxide, caustic potash / Potassium hydroxide (K(OH))	(CAS-No.) 1310-58-3	2 - 5	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402

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 : Prompt treatment is essential to minimize damage.
- First-aid measures after inhalation : Take victim to fresh air, in a quiet place in an half laying position and urgently take medical advice. Respiratory problems: consult a doctor/medical service.
- First-aid measures after skin contact : For even minor contact, immediately remove contaminated clothing. Wash skin thoroughly with mild soap and water. Do not remove clothing if it sticks to the skin. Get immediate medical advice/attention. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Wash immediately with plenty water (during 20 minutes), also under eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist immediately, even if there are no immediate symptoms. If possible show him this sheet. Failing this, show him the packaging or label.
- First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Unconscious: maintain adequate airway and respiration. Place the affected person in the recovery position. Immediately call a POISON CENTER/doctor.

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

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

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 spray. Carbon dioxide. Dry powder. Foam.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

- Fire hazard : Not flammable.
- Explosion hazard : No direct explosion hazard.
- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Control the vapours with a water spray.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Complete protective clothing. EN 469. Self-contained breathing apparatus.
- Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Absorb spillage to prevent material damage. Remove ignition sources. Evacuate area.

6.1.1. For non-emergency personnel

Emergency procedures : Do not get in eyes, on skin, or on clothing. Do not breathe vapours. Evacuate unnecessary personnel. Mark the danger area. Ventilate spillage area. Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. acid-resistant protective clothing. For further information refer to section 8: "Exposure controls/personal protection".

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Emergency procedures : Ventilate area. Stop leak if safe to do so. Dike and contain spill.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Pump up the product into a suitably labelled spare container. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

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

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

Additional hazards when processed : May be corrosive to metals.

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Do not breathe vapours. Use personal protective equipment as required. Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : The floor of the depot should be impermeable and designed to form a water-tight basin. Store on an acid resistant underground. Comply with applicable regulations.

Storage conditions : Protect from sunlight. Store in a well-ventilated place. Store closed containers with closure in upper position. Store locked up. Keep out of reach of children.

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

Storage temperature : 4 - 30 °C Store away from freezing (avoid freezing during storage)

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.

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.

Packaging materials : Do not store in corrodable metal.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

potassium hydroxide, caustic potash / Potassium hydroxide (K(OH)) (1310-58-3)		
ACGIH	Local name	Potassium hydroxide
ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³
ACGIH	Remark (ACGIH)	URT, eye, & skin irr
ACGIH	Regulatory reference	ACGIH 2017
OSHA	OSHA PEL (TWA) (mg/m³)	2

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 : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Assure that emissions are compliant with all applicable air pollution control regulations. Comply with applicable regulations.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

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Since the product consists of several substances, the durability of the glove material cannot be estimated and needs to be tested before use

Type	Material	Permeation	Thickness (mm)	Penetration
Reusable gloves	Butyl rubber, Neoprene rubber (HNBR)	6 (> 480 minutes)		

Eye protection:

Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product

Type	Use	Characteristics
Safety glasses, Face shield	Droplet	With side shields

Skin and body protection:

Skin protection appropriate to the conditions of use should be provided

Type
Chemical resistant apron
Boots

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition
Reusable half mask, Full face mask	ABEK-P3	Vapour protection, Mist formation



Other information:

See Heading 7 : 7.1. Precautions for safe handling.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: brown
Odour	: characteristic
Odour threshold	: No data available
pH	: 11.3 (10.3 - 12.3)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: >= 100 °C
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.23 kg/l
Solubility	: completely soluble.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available

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Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing material according to EC criteria.

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 normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. oxidizing agents (peroxides, chromates, dichromates). Acids. Aluminium. Zinc and its alloys.

10.6. Hazardous decomposition products

Carbon dioxide. Nitrogen oxides. Phosphorus oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

potassium hydroxide, caustic potash / Potassium hydroxide (K(OH)) (1310-58-3)

LD50 oral rat	333 - 388 mg/kg (OECD 425 method)
ATE US (oral)	333 mg/kg bodyweight

Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: 11.3 (10.3 - 12.3)

Serious eye damage/irritation : Causes serious eye damage.
pH: 11.3 (10.3 - 12.3)

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

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

Reproductive toxicity : Not classified

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

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

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

SECTION 12: Ecological information

12.1. Toxicity

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

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

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potassium hydroxide, caustic potash / Potassium hydroxide (K(OH)) (1310-58-3)	
LC50 fish 1	80 mg/l Gambusia affinis, 96 Hours
LC50 other aquatic organisms 1	22 mg/l Photobacterium phosphoreum, 15 minutes
LC50 fish 2	165 mg/l Poecilia reticulata, 24 Hours

12.2. Persistence and degradability

MAXIFRUIT	
Persistence and degradability	Not established.

potassium hydroxide, caustic potash / Potassium hydroxide (K(OH)) (1310-58-3)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

MAXIFRUIT	
Bioaccumulative potential	Not established.

potassium hydroxide, caustic potash / Potassium hydroxide (K(OH)) (1310-58-3)	
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other adverse effects	: May cause eutrophication at very low concentration.
Effect on the global warming	: No known effects from this product.
GWPMix comment	: No known effects from this product.
Other information	: No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Discharging into rivers and drains is forbidden.
Additional information	: Do not re-use empty containers.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description	: UN1760 Corrosive liquids, n.o.s., 8, II
UN-No.(DOT)	: UN1760
Proper Shipping Name (DOT)	: Corrosive liquids, n.o.s.
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: II - Medium Danger
Hazard labels (DOT)	: 8 - Corrosive



DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Symbols	: G - Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	: B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal..... 178.275(d)(3) TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively. TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	: 154
Other information	: No supplementary information available.

Transportation of Dangerous Goods

Transport document description	: UN1760 CORROSIVE LIQUID, N.O.S., 8, II
UN-No. (TDG)	: UN1760
Proper Shipping Name (Transportation of Dangerous Goods)	: CORROSIVE LIQUID, N.O.S.
TDG Primary Hazard Classes	: 8 - Class 8 - Corrosives
Packing group	: II - Medium Danger
TDG Special Provisions	: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a)UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b)UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c)UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d)UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e)UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act". (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a)UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b)UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS. SOR/2014-306
Explosive Limit and Limited Quantity Index	: 1 L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 1 L

Transport by sea

Transport document description (IMDG)	: UN 1760 CORROSIVE LIQUID, N.O.S. (potassium hydroxide, caustic potash / Potassium hydroxide (K(OH))), 8, II
UN-No. (IMDG)	: 1760

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Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: II - substances presenting medium danger
Limited quantities (IMDG)	: 1 L
EmS-No. (1)	: F-A
EmS-No. (2)	: S-B

Air transport

Transport document description (IATA)	: UN 1760 CORROSIVE LIQUID, N.O.S. (potassium hydroxide, caustic potash / Potassium hydroxide (K(OH))), 8, II
UN-No. (IATA)	: 1760
Proper Shipping Name (IATA)	: CORROSIVE LIQUID, N.O.S.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: II - Medium 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

potassium hydroxide, caustic potash / Potassium hydroxide (K(OH)) (1310-58-3)	
CERCLA RQ	1000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

MAXIFRUIT
Ensure all national/local regulations are observed

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

Revision date	: 02/06/2018
Data sources	: Section 1.2, 8.1, 11 & 12 are based on components' Chemical Safety Report and/or data from components' supplier. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-statements:

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H402	Harmful to aquatic life

Abbreviations and acronyms:

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ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
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
vPvB	Very Persistent and Very Bioaccumulative

NFPA health hazard

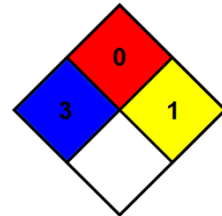
: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard

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

NFPA reactivity

: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



Hazard Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Personal protection

: D
D - Face shield and eye protection, Gloves, Synthetic apron

Indication of changes:

Section	Changed item	Change	Comments
	Display TSCA summary in 15.1	Added	
	Display SARA 313 summary in 15.1	Added	
	Display California Proposition 65 summary in 15.3	Added	
	NFPA reactivity	Added	
	NFPA health hazard	Added	
	NFPA fire hazard	Added	
	Personal protection	Added	
	Physical	Added	
	Health	Added	
	Flammability	Added	
	EmS-No. (2)	Added	
	EmS-No. (1)	Added	

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	TDG Special Provisions	Added	
	Proper Shipping Name (Transportation of Dangerous Goods)	Added	
	TDG Primary Hazard Classes	Added	
	Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	Added	
	Packing group	Added	
	Explosive Limit and Limited Quantity Index	Added	
	UN-No. (TDG)	Added	
	DOT Vessel Stowage Other	Added	
	DOT Vessel Stowage Location	Added	
	DOT Special Provisions (49 CFR 172.102)	Added	
	DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	Added	
	DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	Added	
	DOT Packaging Non Bulk (49 CFR 173.xxx)	Added	
	DOT Packaging Exceptions (49 CFR 173.xxx)	Added	
	DOT Packaging Bulk (49 CFR 173.xxx)	Added	
	DOT Symbols	Added	
	Packing group (DOT)	Added	
	DOT NA no.	Added	
	Class (DOT)	Added	
	Emergency Response Guide (ERG) Number	Added	
	UN-No.(DOT)	Added	
	Proper Shipping Name (DOT)	Added	
	Hazard labels (DOT)	Added	
	Supersedes	Added	
	Revision date	Added	
	Precautionary statements (GHS-US)	Added	
	Signal word (GHS-US)	Added	
	Hazard pictograms (GHS-US)	Added	
	Hazard statements (GHS-US)	Added	
	pH	Modified	
	Protective equipment	Modified	
	Emergency procedures	Added	
	General measures	Added	
	Explosive properties	Modified	
	Waste treatment methods	Modified	
	Waste disposal recommendations	Added	
	Additional information	Added	
	Regional legislation (waste)	Added	
	Other adverse effects	Modified	
	Other information	Added	
	Hazardous decomposition products	Modified	
	Reference to other sections (8, 13)	Modified	
	For containment	Added	
	Methods for cleaning up	Modified	
	Emergency procedures	Added	

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	Protective equipment	Removed	
	Other information	Added	
	Environmental precautions	Modified	
	Symptoms/effects	Modified	
	First-aid measures after skin contact	Modified	
	First-aid measures after inhalation	Modified	
	First-aid measures after ingestion	Modified	
	First-aid measures after eye contact	Modified	
	First-aid measures general	Modified	
	UN-No. (IMDG)	Added	
	UN-No. (IATA)	Added	
	Packing group (IATA)	Added	
	Proper Shipping Name (IATA)	Added	
	Proper Shipping Name (IMDG)	Added	
	Limited quantities (IMDG)	Added	
	Packing group (IMDG)	Added	
	Class (IATA)	Added	
	Class (IMDG)	Added	
	Conditions to avoid	Modified	
	Product code	Modified	
	Density	Modified	
	Oxidising properties	Added	
	Boiling point	Added	
	Flammability (solid, gas)	Added	
	Additional information	Added	
	Additional information	Added	
	Date of issue	Modified	
	Reactivity	Modified	
	Name	Added	
	Incompatible materials	Modified	
	Use of the substance/mixture	Removed	
	Possibility of hazardous reactions	Modified	
	Product form	Added	
2.1	GHS-US classification	Added	
2.3	Other hazards not contributing to the classification	Removed	
3	Composition/information on ingredients	Modified	
5.1	Unsuitable extinguishing media	Modified	
5.1	Suitable extinguishing media	Modified	
5.2	Fire hazard	Added	
5.2	Explosion hazard	Added	
5.3	Protection during firefighting	Modified	
5.3	Firefighting instructions	Added	
5.3	Other information	Added	
7.1	Additional hazards when processed	Added	
7.1	Hygiene measures	Modified	
7.1	Precautions for safe handling	Modified	
7.2	Storage conditions	Modified	
7.2	Technical measures	Added	
7.2	Heat and ignition sources	Added	
7.2	Incompatible products	Added	
7.2	Incompatible materials	Removed	
7.2	Storage temperature	Added	
7.2	Prohibitions on mixed storage	Added	

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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

7.2	Special rules on packaging	Added	
7.2	Packaging materials	Added	
8.2	Hand protection	Modified	
8.2	Skin and body protection	Modified	
8.2	Other information	Added	
8.2	Environmental exposure controls	Added	
8.2	Respiratory protection	Added	
8.2	Personal protective equipment	Removed	
8.2	Eye protection	Modified	
8.2	Appropriate engineering controls	Added	
12.1	Ecology - general	Modified	
12.1	Ecology - water	Modified	
12.2	Persistence and degradability	Modified	
12.3	Bioaccumulative potential	Modified	
12.4	Ecology - soil	Removed	
16	Abbreviations and acronyms	Added	
16	Data sources	Added	
16	Training advice	Added	

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