

Safety Data Sheet

 Pitstop plus [™] revision EU SDS 02 11th Dec 2020

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Name	Pitstop plus
Other Names	None

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

Uses:	Plant food, activator, and catalyst, for professional applicators to be used on farms (loading and spreading), greenhouses, open fields (foliar and fertigation)
Uses advised against	Other non-specified industry
Reason	Due to lack of related experience or data, the supplier cannot approve this use
Chemical family	Inorganic mineral based plant nutrition
Chemical formula	Formulated product see section 3
Chemical name	Formulated product see section 3
Product description	Liquid fertiliser, for the correction/prevention of nutrient deficiencies

1.3 Contact details of the supplier of this Safety Data Sheet

Company Name	Agrichem
Company address	2 Hovey Rd Yatala QLD 4207 Australia
Phone number	+ 61 7 3451 0000
Email	customerservice@agrichem.com.au

1.4 Emergency telephone number

National advisory body or poison information centre	Not available
Supplier Emergency telephone number	Poison Information Centre Australia +61 13 11 26 (24h)

2. HAZARD IDENTIFICATION

Classification of the substance or mixture	Product is defined as a mixture
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Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	EYE IRRITATION - Category 2A
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This product is classified as hazardous according to Regulation (EC) 1272/2008 as amended

See section 16 for the full test of the H statements declared above.
 See section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard Pictograms



Signal word	Warning
Hazard Statements	H319 Causes serious eye irritation
Precautionary Statements	
Prevention	P280-a Wear eye protection. P264-a Wash hands thoroughly after handling.
Response	P305 IF IN EYES:

	P351 Rinse cautiously with water for several minutes. P338 Remove contact lenses, if present and easy to do. Continue rinsing. P337 If eye irritation persists: P313-a Get medical attention
Storage	P102 Keep out of reach of children. P405 Store locked up.
Disposal	P501 Dispose contents / container in accordance with local / regional & national regulations
EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not listed
Special packaging requirements	Containers to be fitted with child-resistant fastening: Required Tactile warning of danger: Not applicable
2.3 Other hazards	
Other hazards which do not result in classification	No data available

3. INFORMATION ON INGREDIENTS				
3.2 Mixtures				
Formulation type:	Mixture			
Product / ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Calcium chloride (CaCl)	EC:233-140-8 CAS : 10043-52-4	≥34 - <45	Courses serious eye irritation H315	1
Boric acid (H₃BO₃)	RRN: 01-2119486683-25 EC: 233-139-2 CAS : 10043-35-3 Index: 005-007-00-2	<1	Repr. 1B, H360FD (Fertility, unborn child)	1

Type

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvB or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES	
4.1 Description of first aid measures	
Eye	Rinse with plenty of running water. Check for and remove any contact lenses. If irritation persists, get medical attention
Inhalation	Avoid inhalation of vapor, spray or mist. If inhaled, remove to fresh air.

Skin contact	Wash affected skin with plenty of water. If symptoms develop, obtain medical attention.
Ingestion	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.
4.2 Most important symptoms and effects, both acute, delayed and over-exposure signs/symptoms	
Alkaline material	
Eye contact	Causes serious eye irritation
Inhalation	No known significant effects or critical hazards
Skin contact	No known significant effects or critical hazards
Ingestion	Irritating to mouth, throat and stomach
4.3 Indication of any immediate medical attention and special treatment needed	
Advice to Doctor	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled
Specific treatments	No specific treatment

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire
Unsuitable extinguishing media	None identified

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	Hazardous thermal decomposition products : Decomposition products may include following materials: halogenated compounds, metal oxide/oxides, Avoid breathing dusts, vapors or fumes from burning materials., In case of inhalation of decomposition products in a fire, symptoms may be delayed.

5.3 Advice for fire fighters

Special protective actions for fire fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate face/eye protection. Put on appropriate personal protective equipment (see Section 8).
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)
6.3 Methods and materials for containment and cleaning up	
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Not for human or animal consumption

Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Provide adequate ventilation. Emergency shower and eye wash facilities should be readily available.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Recommendations	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Storage temperature 0-95° C. Loading temperature 45-95 ° C. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Bund storage facilities to prevent soil and water pollution in the event of spillage.
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Seveso III Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
None	No data available	No data available

7.3 Specific end use (s)

Recommendations	Not available
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in Exposure Scenario(s).

8.1 Control parameters

Occupational Exposure Limits

Product /ingredient name

Calcium chloride

An exposure limit of 5 mg/m³ TWA set by CA Ontario Provincial (2015-06-29)

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Reference should be made to monitoring standards, such as the following:

European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy)

European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents)

European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents)

Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Calcium chloride	DNEL	Short term Inhalation	10 mg/m ³	-	-
		Long term inhalation	5 mg/m ³	-	-

PNECs

Calcium chloride

Type

Compartment detail

Value

Method detail

No data available

8.2 Exposure controls

Appropriate engineering controls

CA Ontario Provincial (2015-06-29) TWA 5 mg/m³.
Good general ventilation should be sufficient to control worker exposure to airborne contaminant.

Individual protection measures

Hygiene measures

A washing facility or water for eye and skin cleaning purposes should be present. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

Eye face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: Tightly-fitting goggles.

Skin protection

Hand protection


Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection	In case of inadequate ventilation wear respiratory protection.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Personal protective equipment (Pictograms)	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solution
Appearance	Liquid
Odour	Slight, characteristic
Odour threshold	Not determined
Colour	Green
pH	2.0 – 2.5
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative Vapour Density	No Data Available
Boiling point	>100 degrees Celsius
Melting point	<-20 deg C
Freezing point	<-20 deg C
Solubility in water	Not applicable to solutions
Specific gravity	1.33 – 1.35 g/cm ³
Miscibility with water	No Data Available
Partition coefficient: noctanol/water	Not determined
Flash point	No Data Available
Flammability (solid, gas)	Not applicable to solutions
Upper/lower flammability or explosive limits	Lower: No Data Available Upper: No Data Available
Evaporation rate	No Data Available
Auto Ignition Temperature	No Data Available
Explosive properties	Non explosive
Oxidising properties	None
Molecular weight	No Data Available
Particle size	Not applicable to solutions
Particle size distribution	Not applicable to solutions
Viscosity	>10 centipoise
Note: Physical data are typical values but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.	

10. STABILITY AND REACTIVITY

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredient
10.2 Chemical Stability	Stable under ordinary conditions.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur
10.5 Incompatible materials	Avoid contamination by any source including metals, dust and organic materials

10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product ingredient name	Method	Species	Result	Exposure	References
Calcium chloride	LD50 Oral	Rat	>2301 mg/kg	Not applicable	IUCLID 5
	LD50 Dermal	Rat	>5000 mg/m ³	Not applicable	IUCLID 5
Calcium chloride Irritation corrosion	Eye OECD 405	Rabbit	Irritant	-	IUCLID 5
Conclusion / Summary	No other significant effects or critical hazards are known				
Acute toxicity estimates (ATE)	Oral route ATE value >5000 mg/kg				

Irritation/corrosion

Conclusion summary

Skin	No known significant effects or critical hazards
Eyes	Causes serious eye irritation
Respiratory	No known significant effects or critical hazards

Sensitization

Conclusion summary

Skin	No known significant effects or critical hazards
Respiratory	No known significant effects or critical hazards

Mutagenicity

Conclusion summary

	No known significant effects or critical hazards
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Carcinogenicity

Conclusion summary

	No known significant effects or critical hazards
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Reproductive toxicity

Conclusion summary

	No known significant effects or critical hazards
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Specific target organ toxicity (repeated exposure)

Product ingredient name	NOAEL	Exposure route	Target organs
Calcium chloride	No known significant effects or critical hazards		

Information on the likely routes of exposure	No data available
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Potential acute health effects

Inhalation	No known significant effects or critical hazards
Ingestion	Irritating to mouth, throat and stomach
Skin contact	No known significant effects or critical hazards
Eye contact	Causes serious eye irritation

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	No specific data
Ingestion	No specific data
Skin contact	No specific data
Eye contact	Adverse symptoms may include the following: pain or irritation, watering, redness

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure	
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Potential immediate effects	Not available
Potential delayed effects	Not available
Long term exposure	
Potential immediate effects	Not available
Potential delayed effects	Not available
Potential chronic health effects	No known significant effects or critical hazards
Carcinogenicity	No known significant effects or critical hazards
Mutagenicity	No known significant effects or critical hazards
Fertility effects	No known significant effects or critical hazards
Developmental effects	No known significant effects or critical hazards
Effects on lactation	No known significant effects or critical hazards
Other effects	No known significant effects or critical hazards
Other information	No data available
Over exposure signs/ symptom	
Eye contact	Adverse symptoms may include the following: pain or irritation, watering, redness
Inhalation	No specific data
Skin contact	No specific data
Ingestion	No specific data

12. ECOLOGICAL INFORMATION					
12.1 Toxicity	Method	Species	Result	Exposure	References
Calcium chloride	Acute LC50	Fish	4630 ml/l	96 hours	IUCLID
	LC50	Daphnia	2400 mg/l	48 hours	IUCLID
Conclusion summary	No known significant effects or critical hazards				
12.2 Persistence and degradability					
Conclusion/Summary	No known significant effects or critical hazards.				
12.3 Bioaccumulative potential					
Product ingredient name	LogPow	BCF	Potential		
Calcium chloride	No data available	No data available	No data available		
Conclusion summary	Inorganic. The substance has no potential for bioaccumulation				
12.4 Mobility in soil	No data available				
Soil/water partition coefficient (KOC)	No data available				
Mobility	No data available				
12.5 Results of PBT and vPvB assessment					
PBT	No data available				
vPvB	No data available				
12.6 Other adverse effects	No known significant effects or critical hazards.				

13. DISPOSAL CONSIDERATIONS
The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied

containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.	
Hazardous waste	Yes
European waste catalogue (EWC)	
Waste code 06 03 13	Inorganic salts and other solids.
Packaging method of disposal	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and run off and contact with soil, waterways, drains and sewers.

14. TRANSPORTATION INFORMATION	
14.1 UN number	Not regulated
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class (es)	Not applicable
14.4 Packaging group	Not applicable
14.5 Environmental hazard	No
Additional information	Not applicable

Regulation: IMDG	
14.1 UN number	Not regulated
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class (es)	Not applicable
14.4 Packaging group	Not applicable
14.5 Environmental hazard	No
Marine pollutant	No

Regulation: IATA	
14.1 UN number	Not regulated
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class (es)	Not applicable
14.4 Packaging group	Not applicable

14.5 Environmental hazard	No
Additional information Marine pollutant	No

14.6 Special precautions for user

14.6 Special precautions for user	Transport within user's premises: Ensure that persons transporting the product know what to do in the event of an accident or spillage.
IMSBC	Not applicable
Transport in bulk according to IMO instruments	Not available

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	Canada, Canadian NPRI: None of the components are listed. Canada CEPA toxic substances: None of the components are listed in the first priority substances list (PSL1).
Other EU regulations	
Ozone depleting substances (1005/2009/EU)	None of the components are listed.
Prior Informed Consent (PIC) (649/2012/EU)	None of the components are listed.
Seveso Directive	No data available
Danger criteria	No data available
National regulations	
Biological product regulations	Not applicable
Notes	To our knowledge no other country or state specific regulations are applicable
15.2 Chemical Safety Assessment	Complete

16. OTHER INFORMATION

The information contained in this SDS is by way of general comment only. Because conditions of use, suitability of product and application conditions are beyond the control of Agrichem, this SDS does not offer any advice in respect to any product. The authors and Agrichem Manufacturing Industries Pty Ltd hereby disclaim any liability to any person, property, or thing in respect of any consequence of anything done or omitted to be done by any person in reliance, whether wholly or in part, upon whole or part of the contents of this SDS.

KEY

< Less than
> Greater than
a.i. Active ingredient
ADG Code Australian dangerous goods code

AICS Australian Inventory of Chemical Substances
ATE Acute toxicity estimation
atm Atmosphere
bw Body weight

CLP Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CAS Chemical Abstract Service (registry number)
Cm² Square Centimetres
CO₂ Carbon Dioxide
deg C (°C) Degrees Celsius
DNEL Derived No Effect Level
DMEL Derived Minimal Effect Level
EPA Environmental Protection Agency based in each state of Australia
EUH statement = CLP-specific Hazard statement
g Grams
g/cm³ Grams per Cubic Centimetre
g/l Grams per Litre
GRAS Generally recognised as safe
HSIS Hazardous substances information system
HSNO Hazardous substances and New Organism
HDPE High density polypropylene
IDLH Immediately Dangerous to Life and Health
Immiscible Liquid are insoluble in each other
inHg inch of Mercury
InH₂O Inch of Water
K Kelvin
kg Kilogram
kg/m³ Kilogram per Cubic Metre
LC₅₀ LC stands for lethal concentration, LC₅₀ is the concentration of a product in air that will cause the death of 50% of a population of test animals. Product is normally inhaled for between 1 and more typically 4 hours
LD₅₀ LD stands for lethal dose. LD₅₀ is the amount of product given in a single dose, causing death in 50% of a population of test animals.
LDLo The lowest amount of a solid or liquid material reported to have caused the death of animals or humans
m³ Cubic Metre
MAPP Major accident prevention policy

Key data sources

HSDB Hazardous Substances Data Bank
 EU Reach

mbar Millibar
mg Milligram
mg/24H Milligrams per 24 hours
mg/kg Milligrams per Kilogram
mg/m³ Milligrams per Cubic Metre
Misc or **Miscible** Liquids from one homogeneous liquid phase regardless of the amount of either component present
mm Millimetre
mmH₂O Millimetres of Water
mPa.s Millipascals per Second
MSHA Mine safety and health administration
N/A Not Applicable
NIOSH National Institute for Occupational Safety and Health
NOHSC National Occupational Health and Safety Commission
OECD Office for Economic Co-operation and Development
PBT Persistent, Bioaccumulative and Toxic
vPvB Very Persistent and Very Bioaccumulative
PEL Permissible Exposure Limit
PNEC Predicted No Effect Concentration
Pa Pascal
ppb Parts per Billion
PPE personal protective equipment
ppm Parts per Million
ppm/2h Parts per million per 2 hours
ppm/6h Parts per million per 6 hours
psi Pounds per square inch
R Rankine
RRN REACH Registration Number
RCP Reciprocal Calculation Procedure
SCBA Self Contained Breathing Apparatus
SWA Safe Work Australia
STEL Short Term Exposure Limit
SUSMP Standard for the uniform scheduling of medicines and poisons
TVL Threshold Limit Value
TWA Time Weighted Average
UN United Nations
wt Weight

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]	
Classification	Justification
Eye irritation – Category 2A	Calculated method
Full text of abbreviated H statements	
H319	Causes serious eye irritation

End of SDS