MATERIAL SAFETY DATA SHEET

(according to Regulation no. 830/2015)

destral® vegetables rinsing

date of revision: 29/09/2018

SECTION 1: Chemical product and company identification

1.1 Product identifier

Product chemical name: destral® vegetables rinsing
Chemical family: Mixture
Molecular formula: Not applicable

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

1.2.1 Relevant identified uses

dichlorisocyanurat 56%

1.2.2 Uses advised against

No uses advised against

1.3 Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification as hazardous according to European Regulation (EC) 1272/2008 (CLP/GHS)

Eye Dam/Irr. 2	H319	Causes serious eye irritation
Acute Tox. 4 (oral)	H302	Harmful if swallowed
STOT SE. 3	H335	May cause respiratory irritation
Aquatic Chronic 1	H410	Very toxic to aquatic life with long-lasting effects

2.2 Label elements

2.2.1 Labelling according to Regulation EC No 1272/2008 (CLP/GHS)

The mixture is classified and labeled according to the CLP Regulation

Hazard pictograms

GHS09

Signal word

Attention

Hazards statements

H319	:	Causes serious eye irritation
H302	:	Harmful if swallowed
H335	:	May cause respiratory irritation
H410	:	Very toxic to aquatic life with long-lasting effects

Precautionary statements

P102	:	Keep out of reach of children.
P273	:	Avoid release to the environment.
P280	:	Wear protective gloves/protective clothing/eye protection/face protection.
P304 + P340	:	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P403+P233	:	Store in a well ventilated place. Keep container tightly closed.
P501	:	Dispose of contents in accordance with local/regional/national/international regulation
EUH031	:	Contact with acids liberates toxic gas

SECTION 3: Composition / Information on ingredients

INGREDIENT	EC NUMBER	CAS NUMBER	REGISTRATION NUMBER	w/w %	CLP CLASSIFICATION	
sodium dichloroisocyanurate	220-767-7	51580-86-0		>30	Eye Dam/Irr. 2, Acute Tox. 4 (oral), STOT SE. 3, Aquatic Chronic 1	H319 H302 H335 H410

SECTION 4: First aid measures

4.1 Description of necessary first-aid measures

After inhalation	:	Remove person to fresh air and keep comfortable for breathing.
After skin contact	:	Rinse thoroughly with water and soap.
After contact with eyes	:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
After ingestion	:	Rinse mouth.
General instructions	:	Call immediately a POISON CENTER or a doctor.

4.2 Most important symptoms and effects, acute and delayed

There is no available data

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (disinfection, vital functions), no known specific antidote.

SECTION 5: Fire fighting measures

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Water, CO_2, dry powder

5.1.2 Unsuitable extinguishing media

No unsuitable extinguishing media known

5.2 Special exposure hazards arising from the substance

Liberates toxic oxides of carbon and nitrogen.

5.3 Recommendation for fire-fighters

Wear personal protective equipment

5.4 Additional information

Separately collected contaminated water must not be discharged into drains.

Containers with flammable materials must be cooled with high pressure water.

Fire residues and contaminated water from damping shall be deposited in accordance with legal regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate approved protective equipment.

6.2 Environmental protection measures

Do not allow to enter drains or waterways with earth or sand, not with sawdust.

Elimination of sodium hypochlorite with reducing agents (eg. sodium sulphite,hydrogen peroxide).

Neutralisation.

6.3 Restriction and cleaning methods and materials used

Recover the product. The product might, where appropriate, be absorbed by inert material (e.g. sand, sawdust).

Place on plastic barrels for disposal in accordance with local laws and regulations.

6.4 Reference to other sections

See heading 7 for information on safe handling.

See heading 8 for information on personal protection equipment.

See heading 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precaution for safe handling

Wear protective gloves/protective clothing/eye protection/face protection.

Wash your hands thoroughly after handling.

7.2 Condition for storage, including any incompatibilities

Store locked up. Keep only in original container.

Use only outdoors or in a well-ventilated area.

Store away from other materials.

Protect from sunlight.

Store at temperatures not exceeding 30°C

Contact with acids liberates toxic gas

7.3 Specific end use(s)

No further recommendations

SECTION 8: Exposure control / Personal protection

There is no available data for the mixture, but for the following material are provided:

8.1 Control parameters

sodium dichloroisocyanurate

exposure limits (ACGIH)

chlorine: TLV-TWA= 0. 5 ppm TLV-STEL= 1 ppm

8.2.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

8.2.2 Personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with skin.

Apply technical measures to comply with the Occupational Exposure Limits.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product.

Due to missing tests no recommendation to the glove material can be given for the product.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material,but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:

The breakthrough time according to the regulation EN 374 Part III, is not applicable in real conditions.

Therefore, a maximum usage time is proposed, amounting to 50% breakthrough time.

For the permanent contact in work areas without heightened risk of injury (eg Laboratory) gloves of PVA are suitable.

Eye protection:

Tightly sealed goggles

Body protection:

Use protective suit.

8.2.3 Environmental exposure controls

The established local emission limits of hazardous substances must be followed, if any.

Do not enter the sewage system or groundwater.

Risk management measures: Ensure good ventilation of premises security.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Property	Value
Physical form at 20 ^{o}C and 101.3 kPa	White powder or granules
Melting point	240 - 250 ^{0}C
Boiling point	not available
Weight pre volume (g/cm^{3})	800-900
Vapour pressure	not available
Solubility in water	250 g/lt
Partition coefficient : n-octanol/water (logarithmic)	not available

Property	Value
Flash point	not available
Flammability	not available
Explosive properties	not available
Auto-ignition temperature	not available
Oxidising properties	not available
Viscosity	not available
Stability in organic solvents and identification of relevant degradation products.	not available

9.2 Other information

There is no available data

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous situations are arised if the product is stored and handled under normal conditions.

10.2 Chemical stability

Stable under normal conditions of storage, handling and use (see Chapter 7).

Product loses less than 1% chlorine after one year at 40 °C.

10.3 Possibility of hazardous reactions

Avoid contact with metals.

10.4 Condition to avoid

Moisture and temperatures up to 50 ° C.

10.5 Materials to avoid

The product attacks metals in general. It reacts with water, oxidant and reducing agents, acids, alkalis, nitrogen products, ammonium salts, urea, quaternary ammonium derivates, oils, fats, peroxides.

10.6 Hazardous decomposition products

In combination with the above mentioned products, it decomposes and gives off a great quantity of heat, chlorine, nitrogen trichloride, etc. with subsequent danger of explosion, if nitrogen trichloride levels are high enough.

SECTION 11: Toxicological information

There is no available data for the mixture, but for the following material are provided:
sodium dichloroisocyanurate
High-toxicity
- Oral (rat): 1800mg / kg enough
- Skin (rabbits): enough
- Eyes (rabbits): enough

SECTION 12: Ecological information

There is no available data for the mixture, but for the following material are provided:
sodium dichloroisocyanurate
Treatment and discharge of used product.
The product should be handled according to local regulations. Do not dispose empty containers as they are.

SECTION 13: Disposal considerations

13.1 Waste disposal methods
Recycle or regenerate the product if is it possible. Waste content material characterization according to the EWC 20.01.30*. Must be disposed of or incinerated in accordance with local regulations.
Contaminated packaging:
Uncontaminated packaging can be re-used.
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

13.2 Recommendations
Dispose of in accordance with local regulations. The disposal remains the responsibility of the waste treatment operator.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	3077	3077	3077	3077
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, N.O.S.
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	NO	NO	NO	NO
14.6 Special precautions for user	-	-	-	-
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	-	-	-	-

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Regulation 1907/2006 (REACH)
Annex XIV: List of substances subject to authorization.
Annex XVII: Restrictions on production, marketing and use of certain dangerous substances, mixtures and products: Not applicable
15.1.2 Other regulatory information
If other regulatory information applies that is not already provided elsewhere in this safety data sheet,
15.2 Chemical safety assessment
A chemical safety assessment has not been carried out for the mixture. Chemical safety assessment has been carried out for one or more components of the mixture.

SECTION 16: Other information

16.1 Indication of changes
This is the first version of the Safety Data Sheet for the product, in accordance with Regulations (EC) 1907/2006, 1272/2008, 37b / 2012, 453/2010 and 830/2015, in order to include the latest information of the mixture and its components.

16.2 Abbreviations

vPvB	:	Very persistent and very bioaccumulative substances
PBT	:	Persistent, Bioaccumulative and Toxic
ADN	:	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road
HOC	:	Halogenated organic compounds (HOC)
CAS	:	Chemical Abstracts Service
DMEL	:	Derived Minimal Effect Level (genotoxic substances)
DNEL	:	Derived No Effect Level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
IATA	:	International Air Transport Association
IMDG	:	International Maritime Dangerous Goods
LC50	:	Lethal Concentration 50%
LD50	:	Lethal Dose 50%
MARPOL	:	International Convention for the Prevention of Pollution From Ships
NOAEC	:	No Observed Adverse Effect Concentration
NOAEL	:	No Observed Adverse Effect Level
NOEC	:	Non Observed Effect Concentration
OEL	:	Occupational Exposure Limit
PEC	:	Predicted Environmental Concentration
PNEC	:	Predicted No Effect Concentration
REACH	:	Registration, Evaluation, Authorisation and Restriction of Chemicals
PNEC	:	Predicted no effect concentration

16.3 Key literature references and sources of data

The Safety Data Sheets of suppliers were data sources, as well as Regulations (EC) 1907/2006, 1272/2008, 37b / 2012 and 453/2010.1272/2008, 37b/2012, 453/2010 and 830/2015.

16.4 Procedure used to derive the classification of the product according to Article 9 of Regulation 1272/2008 (CLP)

Experiments have not been carried out for the mixture. Information on product classification, as presented in section 2.1 of the SDS, is based on data relevant to the classification and properties of individual components of the mixture. Based on CLP, defining the burden of proof, using expert judgment in accordance with section 1.1.1 of Annex I, weighing all the available information of the mixture.

16.5 List of the hazard statements mentioned in section 3

H319	:	Causes serious eye irritation
H302	:	Harmful if swallowed
H335	:	May cause respiratory irritation
H410	:	Very toxic to aquatic life with long-lasting effects

16.6 Training advice

No special staff education is required. Everyone should be fully informed about the necessary procedures (scheduled and unscheduled) and the precautionary measures described in this Safety Data Sheet (main body and ES). These measures and procedures must be followed each time the material is used.

Note: The data contained in this Safety Data Sheet are based on our state of knowledge at the above-specified date. It is intended to describe the product from a point of view of health and safety requirements. It is not therefore constructed as guaranteeing specific properties.