

# SAFETY DATA SHEET CHELADE

According to EC Regulation 1907/2006/EC - revision 2015/830

Revision No. 3.2

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## SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### 1.1. Product identifier

Product Name CHELADE  
Product Code 11000618G1 (CLP)

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

#### Recommended use

Rust converter and metal primer.

### 1.3. Details of the supplier of the safety data sheet

NCH UK & Ireland, NCH House, Springvale Avenue, Bilston, WV14 0QL Tel (UK): 01902 510200, Tel (Ireland): 042 939 5502  
E-mail address technical\_uk@nch.com  
Website address www.ncheurope.com

### 1.4. Emergency telephone number

UK - 01902 510200 (available during Office Hours)  
In Republic of Ireland (available from 8am to 10pm daily): 01 809 2166

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 (CLP/GHS) and its adaptations

This mixture is not classified according to EU Regulation No 1272/2008

### 2.2. Label elements

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

Keep out of reach of children.  
For industrial and institutional use only.

### 2.3. Other hazards

No additional hazards identified.  
The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

## SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

### 3.2 Mixture

Chemical Name	CAS-No.	EC No.	EU - REACH reg number	Weight-%	EU - GHS/CLP Classification	Notes
TANNIC ACID	1401-55-4	215-753-2	-	5 - < 10	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	
SILICA	7631-86-9	231-545-4	01-2119379499-16	3 - < 5	-	
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	252-104-2	01-2119450011-60	1 - < 3	-	

This mixture contains substances with a Community workplace exposure limit. For any H statements mentioned in this section, see the full text in section 16.

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General advice

Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Get medical attention immediately if symptoms occur.

#### Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

#### Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

#### Ingestion

Rinse mouth with water. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

#### Inhalation

Remove from the area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

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

No information available.

Eye contact

May cause irritation as itching and redness.

Skin contact

May cause irritation as itching or redness.

Inhalation

Inhalation of mists may result in irritation to the respiratory tract.

**4.3. Indication of any immediate medical attention and special treatment needed**Notes to physician

Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES****5.1. Extinguishing media**Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use: Water spray. Foam. Dry powder. Carbon dioxide (CO<sub>2</sub>).

**5.2. Special hazards arising from the substance or mixture**

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Silicon oxides.

Material can create slippery conditions.

**5.3. Advice for firefighters**

Firefighters should wear a self-contained breathing apparatus and full protective gear.

**SECTION 6. ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

**6.2. Environmental precautions**

Avoid release of neat product into surface water and sanitary sewage system.

**6.3. Methods and material for containment and cleaning up**Methods for Containment

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Methods for Cleaning up

Clean preferably with a detergent, do not use solvents.

**6.4. Reference to other sections**

Refer to sections 7, 8 and 13.

**SECTION 7. HANDLING AND STORAGE****7.1. Precautions for safe handling**

Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

**7.3. Specific end use(s)**

No information available.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**Exposure limits

If vapours, fumes or mists are generated, their concentration in the workplace area should be kept to the lowest reasonable level. For substances.

Chemical Name	European Union	The United Kingdom	France	Germany	Austria
SILICA		STEL: 18 mg/m <sup>3</sup> STEL: 7.2 mg/m <sup>3</sup> TWA: 6 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup>		AGW: 4mg/m <sup>3</sup> TWA: 4mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>
DIPROPYLENE GLYCOL METHYL ETHER		STEL: 150 ppm STEL: 924 mg/m <sup>3</sup> TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> Skin	TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> Skin	AGW: 50ppm AGW: 310mg/m <sup>3</sup> Peak: 50ppm Peak: 310mg/m <sup>3</sup> TWA: 50ppm TWA: 310mg/m <sup>3</sup>	Skin STEL: 100 ppm STEL: 614 mg/m <sup>3</sup> TWA: 50 ppm TWA: 307 mg/m <sup>3</sup>

Chemical Name	Spain	Portugal	Italy	The Netherlands	Switzerland
SILICA					TWA: 4 mg/m <sup>3</sup> TWA: 0.3 mg/m <sup>3</sup>
DIPROPYLENE GLYCOL METHYL ETHER	Skin TWA: 50 ppm TWA: 308 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> Skin	TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> Skin	TWA: 300 mg/m <sup>3</sup>	STEL: 50 ppm STEL: 300 mg/m <sup>3</sup> TWA: 50 ppm TWA: 300 mg/m <sup>3</sup>

Chemical Name	Denmark	Finland	Norway	Sweden	Czech
SILICA		TWA: 5 mg/m <sup>3</sup>	TWA: 1.5 mg/m <sup>3</sup>		PEL: 0.1mg/m <sup>3</sup> PEL: 4.0mg/m <sup>3</sup>
DIPROPYLENE GLYCOL METHYL ETHER	TWA: 50 ppm TWA: 309 mg/m <sup>3</sup> Skin	TWA: 50 ppm TWA: 310 mg/m <sup>3</sup> Skin	TWA: 50 ppm TWA: 300 mg/m <sup>3</sup> Skin	50 ppm 300 mg/m <sup>3</sup> 75 ppm 450 mg/m <sup>3</sup>	PEL: 270mg/m <sup>3</sup> NPK-P: 550mg/m <sup>3</sup>

Chemical Name	Poland	Ireland
SILICA		TWA: 6 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup> STEL: 18 mg/m <sup>3</sup> STEL: 7.2 mg/m <sup>3</sup>
DIPROPYLENE GLYCOL METHYL ETHER	NDSch: 480 mg/m <sup>3</sup> NDS: 240 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> STEL: 150 ppm STEL: 924 mg/m <sup>3</sup> Skin

## 8.2. Exposure controls

### Engineering Measures

General ventilation is normally adequate.

### Personal Protective Equipment

Use personal protection equipment as per Directive 89/686/EEC.

### Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Conforming to EN 143 eg P2 / P3 Particle filters.

### Hand Protection

Long term use eg continuous wear or immersion ;. Wear suitable protective gloves conforming to EN 374. Type of gloves suggested :. Nitrile rubber (0.4 mm). PVC (0.7mm). Neoprene gloves (0.4 mm). Breakthrough time of the glove material (protective index 6, breakthrough time: >480 min). For break through times, refer to glove manufacturers recommendations.

### Eye Protection

Safety glasses if the method of use presents the likelihood of eye contact. Approved to EN 166.

### General hygiene considerations

Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Information below relates to typical values and does not constitute a specification.

<b>Appearance</b>	Off-white	<b>Specific Gravity</b>	1.27
<b>Physical State</b>	Liquid	<b>Solubility</b>	Soluble in water
<b>Odour</b>	Slight	<b>Autoignition Temperature</b>	250 °C
<b>pH</b>	2	<b>Viscosity</b>	Viscous
<b>Melting Point/Range</b>	No information available.	<b>Explosive properties</b>	No information available

<b>Flash Point</b>	Not relevant	<b>Oxidizing Properties</b>	No information available.
<b>Evaporation Rate</b>	No information available.	<b>VOC Content (%)</b>	1.4 %
<b>Flammability Limits in Air %</b>	Not applicable.		
<b>Vapor Pressure</b>	No information available.		
<b>Vapor Density</b>	No information available.		

**9.2. Other information**

No other information available

**SECTION 10. STABILITY AND REACTIVITY****10.1. Reactivity**

Not considered as highly reactive. See further information below.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

The mixture itself will not dangerously react or polymerise to create hazardous conditions in normal use.

**10.4. Conditions to avoid**

No conditions to be specially mentioned.

**10.5. Incompatible materials**

Oxidising agents. Reducing agents. Strong bases.

**10.6. Hazardous decomposition products**

None under normal storage conditions and use.

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Silicon oxides.

**SECTION 11. TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**Product Information

The product itself has not been tested.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
TANNIC ACID	= 2260 mg/kg ( Rat )		
SILICA	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 2.2 mg/L ( Rat ) 1 h
DIPROPYLENE GLYCOL METHYL ETHER	= 5230 mg/kg ( Rat )	= 9500 mg/kg ( Rabbit )	

Sensitisation

No information available.

Skin contact

May cause irritation as itching or redness.

Inhalation

Inhalation of mists may result in irritation to the respiratory tract.

Eye contact

May cause irritation as itching and redness.

Carcinogenicity

There are no known carcinogenic substances in this product.

Mutagenic Effects

There are no known mutagenic substances in this product.

Reproductive Effects

There are no known substances in this product with effects on reproduction.

**SECTION 12. ECOLOGICAL INFORMATION****12.1. Toxicity**Product Information

The product itself has not been tested.

**Ecotoxicity effects**

Contains substance(s) known to be hazardous to the aquatic environment. pH values above 10.5 may be fatal to fish and other aquatic organisms.

Chemical Name	Toxicity to Fish	Water Flea	Toxicity to Algae
SILICA	LC50 = 5000 mg/L Brachydanio rerio 96 h	7600: 48 h Ceriodaphnia dubia mg/L EC50	EC50 = 440 mg/L Pseudokirchneriella subcapitata 72 h
DIPROPYLENE GLYCOL METHYL ETHER	LC50 > 10000 mg/L Pimephales promelas 96 h	1919: 48 h Daphnia magna mg/L LC50	

**12.2. Persistence and degradability**

Persistence and degradability are substance specific, no test data is available on the constituents of this mixture to degrade or persist in the environment, either through biodegradation or other processes, such as oxidation or hydrolysis.

**12.3. Bioaccumulative potential**

Component information below.

Chemical Name	log Pow
DIPROPYLENE GLYCOL METHYL ETHER	-0.064

#### 12.4. Mobility in soil

Soluble in water.

#### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

#### 12.6. Other adverse effects

No data available.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

##### Waste from Residues / Unused Products

Dispose of in accordance with local regulations.

##### Contaminated Packaging

Empty remaining contents. Empty containers should be taken for local recycling, recovery or waste disposal. Dispose of in accordance with local regulations.

##### EWC waste disposal No

The following EWC/ AVV waste codes may be applicable:

07 07 01\* aqueous washing liquids and mother liquors

##### Other Information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific

### SECTION 14. TRANSPORT INFORMATION

#### 14.1, 14.2, 14.3, 14.4.

Not classified for transport as dangerous goods

#### 14.5. Environmental hazards

The mixture is not environmentally hazardous for transport

#### 14.6. Special precautions for user

No special precautions.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Packaged product, not typically transported in IBC's.

#### Additional information

The above information is based on latest transport regulations i.e. ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

### SECTION 15. REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This mixture was classified in compliance with EC Regulation 1272/2008 (CLP) and its adaptations.

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##### Other regulatory information

MAL Code ( Denmark) : 00-3 (1993).

##### Directive 2004/42/EC:

EU Limit Value for this product (cat A/i): 140g/l (2010) This product contains max 20 g/l VOC

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this mixture by the supplier

### SECTION 16. OTHER INFORMATION

#### Text of H statements mentioned in Section 3

H315 - Causes skin irritation. H319 - Causes serious eye irritation.

Prepared By Austen Pimm

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#### Revision summary

CLP update. SDS sections updated 2 15 3 16

#### Abbreviations

REACH: Registration Evaluation Authorisation Restriction of Chemicals

EU: European Union

EC: European community

EEC: European Economic Community

UN: United Nations

CAS: Chemical Abstracts Service

PBT: Persistent Bioaccumulative Toxic

vPvB: very Persistent very Bioaccumulative

LC50: Lethal concentration, 50 percent

LD50 : Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

LogPow: LogP octanol/water

VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Administrative order relating to substances hazardous to water - Germany)

WGK: Wassergefährdungsklasse (Water Hazard Class - Germany).

AVV: Abfallverzeichnis-Verordnung (Waste Code - Germany)

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European agreement governing the international carriage of dangerous goods by road)

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International carriage of Dangerous goods by rail)

EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods

ERG: Emergency Response Guidebook

IUCLID / RTECS International Uniform Chemical Information Database / Registry of Toxic Effects of Chemical Substances

GHS: Globally Harmonised System of classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

VOC: Volatile Organic Chemical

w/w: weight for weight

DMSO: Dimethyl sulphoxide

OECD: Organization for Economic Cooperation and Development

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

#### Further Information

Component test results displayed in sections 11 and 12 are typically supplied by Chemadvisor and assembled from publicly available literature sources e.g. IUCLID / RTECS

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations

#### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**