

CHRYSO®Deco Brush XS - B1014



SAFETY DATA SHEET
(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : CHRYSO®Deco Brush XS
Product code : B1014.

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

Surface retarder

1.3. Details of the supplier of the safety data sheet

Registered company name : CHRYSO SAS.
Address : 7 rue de l'Europe.45300.SERMAISES DU LOIRET .France.
Telephone : 02 38 34 58 00. Fax : 02 38 39 01 72.
fds.chryso@chryso.com
www.chryso.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

↳ In compliance with EC regulation No. 1272/2008 and its amendments.

Skin corrosion, Category 1 (Skin Corr. 1, H314).
Serious eye damage, Category 1 (Eye Dam. 1, H318).
Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).
Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

Mixture for spray application.

↳ In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS05



GHS08

Signal Word :

DANGER

Product identifiers :

EC 201-766-0 TARTARIC ACID
EC 800-029-6 AMINES, N-(C16-18 (EVEN NUMBERED) AND C18-UNSATD. ALKYL) TRIMETHYLENEDI-,
ETHOXYLATED(NLP)
EC 629-719-3 N-C16-18 (EVEN NUMBERED) AND C18 (UNSATURATED) ALKYL PROPANE-1,3-DIAMINE

Hazard statements :

H314 Causes severe skin burns and eye damage.
H373 May cause damage to organs through prolonged or repeated exposure (if swallowed).
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash the hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

>SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

> Composition :

Identification	(EC) 1272/2008	Note	%
CAS: 87-69-4 EC: 201-766-0 TARTARIC ACID	GHS05 Dgr Eye Dam. 1, H318		2.5 \leq x % < 10
CAS: 1290049-56-7 EC: 800-029-6 REACH: 01-2119962190-43 AMINES, N-(C16-18 (EVEN NUMBERED) AND C18-UNSATD. ALKYL) TRIMETHYLENEDI-, ETHOXYLATED(NLP)	GHS07, GHS05, GHS09, GHS08 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 STOT RE 1, H372 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 1		0 \leq x % < 2.5
CAS: 1219010-04-4 EC: 629-719-3 REACH: 01-2119487014-41 N-C16-18 (EVEN NUMBERED) AND C18 (UNSATURATED) ALKYL PROPANE-1,3-DIAMINE	GHS07, GHS05, GHS09, GHS08 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 STOT RE 1, H372 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 1		0 \leq x % < 2.5

(Full text of H-phrases: see section 16)

>SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

> In the event of splashes or contact with skin :

Remove any soiled or splashed clothing immediately.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

> In the event of swallowing :

Do not give the patient anything orally.

Seek medical attention immediately, showing the label.

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

No data available.

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

No data available.

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SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

No data available.

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Neutralise with an alkaline decontaminant, such as an aqueous solution of sodium carbonate or similar.

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

Fire prevention :

Prevent access by unauthorised personnel.

> Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid exposure - obtain special instructions before use.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Packaging

Always keep in packaging made of an identical material to the original.

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7.3. Specific end use(s)

No data available.

>SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No data available.

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

When spraying, wear a face shield in accordance with standard EN166.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

> - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- PVC (polyvinyl chloride)

- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Impervious gloves in accordance with standard EN374

> - Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

Wear suitable protective clothing, in particular overalls and boots. These items must be kept in good condition and cleaned after use.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

> - Respiratory protection

Type of FFP mask :

Wear a disposable half-mask aerosol filter in accordance with standard EN149.

Category :

- FFP2

>SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state :

Fluid liquid.

Odour :

Characteristic

Colour :

Yellow

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l> Important health, safety and environmental information

pH :	2.00 . Strongly acidic.
Boiling point/boiling range :	Not relevant.
Flash point interval :	Not relevant.
Vapour pressure (50°C) :	Not relevant.
Density :	> 1
Water solubility :	Dilutable.
Melting point/melting range :	Not relevant.
Self-ignition temperature :	Not relevant.
Decomposition point/decomposition range :	Not relevant.

9.2. Other information

No data available.

>SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

l> 10.4. Conditions to avoid

Avoid :
- frost

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :
- carbon monoxide (CO)
- carbon dioxide (CO₂)

>SECTION 11 : TOXICOLOGICAL INFORMATION

l> 11.1. Information on toxicological effects

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure for up to three minutes.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

May cause severe damage to organs in the event of repeated or prolonged exposure.

11.1.1. Substances

l> Specific target organ systemic toxicity - repeated exposure :

N-C16-18 (EVEN NUMBERED) AND C18 (UNSATURATED) ALKYL PROPANE-1,3-DIAMINE (CAS: 1219010-04-4)

Oral route : C = 15 mg/kg bodyweight/day
Species : Rat
Duration of exposure : 28 days

AMINES, N-(C16-18 (EVEN NUMBERED) AND C18-UNSATD. ALKYL) TRIMETHYLENEDI-, ETHOXYLATED(NLP) (CAS: 1290049-56-7)

Oral route : C = 1 mg/kg bodyweight/day
Duration of exposure : 28 days

11.1.2. Mixture

l> Skin corrosion/skin irritation :

Corrosive classification is based on an extreme pH value.

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>SECTION 12 : ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

> 12.1.1. Substances

N-C16-18 (EVEN NUMBERED) AND C18 (UNSATURATED) ALKYL PROPANE-1,3-DIAMINE (CAS: 1219010-04-4)

Fish toxicity : Duration of exposure : 96 h

Crustacean toxicity : EC50 = 0.025 mg/l
Factor M = 10
Duration of exposure : 48 h

0,001 < NOEC <= 0,01 mg/l
Factor M = 1

AMINES, N-(C16-18 (EVEN NUMBERED) AND C18-UNSATD. ALKYL) TRIMETHYLENEDI-, ETHOXYLATED(NLP) (CAS: 1290049-56-7)

Fish toxicity : 0.01 < LC50 <= 0.1 mg/l
Factor M = 10
Duration of exposure : 96 h

0,001 < NOEC <= 0,01 mg/l
Factor M = 1

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

> 12.2.1. Substances

N-C16-18 (EVEN NUMBERED) AND C18 (UNSATURATED) ALKYL PROPANE-1,3-DIAMINE (CAS: 1219010-04-4)

Biodegradability : Rapidly degradable.

AMINES, N-(C16-18 (EVEN NUMBERED) AND C18-UNSATD. ALKYL) TRIMETHYLENEDI-, ETHOXYLATED(NLP) (CAS: 1290049-56-7)

Biodegradability : Rapidly degradable.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

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Soiled packaging :

Empty container completely. Keep label(s) on container.
Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2017 - IMDG 2016 - ICAO/IATA 2017).

14.1. UN number

3265

14.2. UN proper shipping name

UN3265=CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

(amines, n-(c16-18 (even numbered) and c18-unsatd. alkyl) trimethylenedi-, ethoxylated(nlp))

14.3. Transport hazard class(es)

- Classification :



8

14.4. Packing group

III

14.5. Environmental hazards

-

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	8	C3	III	8	80	5 L	274	E1	3	E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	8	-	III	5 L	F-A,S-B	223 274	E1

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	8	-	III	852	5 L	856	60 L	A3 A803	E1
	8	-	III	Y841	1 L	-	-	A3 A803	E1

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15 : REGULATORY INFORMATION

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

15.1.1. Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/1480 (ATP 13)

- Container information:

No data available.

- Particular provisions :

No data available.

15.2. Chemical safety assessment

No data available.

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>SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

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

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

> Wording of the phrases mentioned in section 3 :

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H372	Causes damage to organs through prolonged or repeated exposure .
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

> Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS05 : Corrosion

GHS08 : Health hazard

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.

CHRYSO®Deco Brush M - B1015



SAFETY DATA SHEET
(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : CHRYSO®Deco Brush M
Product code : B1015.

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

Surface retarder

1.3. Details of the supplier of the safety data sheet

Registered company name : CHRYSO SAS.
Address : 7 rue de l'Europe.45300.SERMAISES DU LOIRET .France.
Telephone : 02 38 34 58 00. Fax : 02 38 39 01 72.
fds.chryso@chryso.com
www.chryso.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

>SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

> In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

Mixture for spray application.

> In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS07



GHS08

Signal Word :

WARNING

Product identifiers :

EC 800-029-6

AMINES, N-(C16-18 (EVEN NUMBERED) AND C18-UNSATD. ALKYL) TRIMETHYLENEDI-,
ETHOXYLATED(NLP)

Hazard statements :

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H373

May cause damage to organs through prolonged or repeated exposure (if swallowed).

H412

Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P264

Wash the hands thoroughly after handling.

P273

Avoid release to the environment.

P280

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

Precautionary statements - Response :

P314

Get medical advice/attention if you feel unwell.

P332 + P313

If skin irritation occurs: Get medical advice/attention.

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2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

>SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

> Composition :

Identification	(EC) 1272/2008	Note	%
CAS: 5949-29-1 EC: 611-842-9 REACH: 01-2119457026-42 CITRIC ACID MONOHYDRATE	GHS07 Wng Eye Irrit. 2, H319		2.5 \leq x % < 10
CAS: 6915-15-7 EC: 210-514-9 REACH: 01-2119906954-31 ACIDE MALIQUE DL	GHS07 Wng Eye Irrit. 2, H319		0 \leq x % < 2.5
CAS: 1290049-56-7 EC: 800-029-6 REACH: 01-2119962190-43 AMINES, N-(C16-18 (EVEN NUMBERED) AND C18-UNSATD. ALKYL) TRIMETHYLENEDI-, ETHOXYLATED(NLP)	GHS07, GHS05, GHS09, GHS08 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 STOT RE 1, H372 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 1		0 \leq x % < 2.5
CAS: 1219010-04-4 EC: 629-719-3 REACH: 01-2119487014-41 N-C16-18 (EVEN NUMBERED) AND C18 (UNSATURATED) ALKYL PROPANE-1,3-DIAMINE	GHS07, GHS05, GHS09, GHS08 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 STOT RE 1, H372 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 1		0 \leq x % < 2.5

(Full text of H-phrases: see section 16)

>SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
 NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.
 If there is any redness, pain or visual impairment, consult an ophthalmologist.

> In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.
 Watch out for any remaining product between skin and clothing, watches, shoes, etc.
 If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.
 In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.
 Seek medical attention immediately, showing the label.

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

No data available.

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

No data available.

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SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

No data available.

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

>SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Fire prevention :

Prevent access by unauthorised personnel.

> Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid skin and eye contact with this mixture.

Avoid exposure - obtain special instructions before use.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

CHRYSO®Deco Brush M - B1015

>SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No data available.

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

When spraying, wear a face shield in accordance with standard EN166.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)
- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Impervious gloves in accordance with standard EN374

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

> - Respiratory protection

Category :

- FFP2

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state :	Fluid liquid.
Odour :	Characteristic
Colour :	Blue

Important health, safety and environmental information

pH :	2.20 . Slightly acidic.
Boiling point/boiling range :	Not relevant.

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Flash point interval :	Not relevant.
Vapour pressure (50°C) :	Not relevant.
Density :	> 1
Water solubility :	Dilutable.
Melting point/melting range :	Not relevant.
Self-ignition temperature :	Not relevant.
Decomposition point/decomposition range :	Not relevant.

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid :

- frost

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO₂)

>SECTION 11 : TOXICOLOGICAL INFORMATION

> 11.1. Information on toxicological effects

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

May cause severe damage to organs in the event of repeated or prolonged exposure.

11.1.1. Substances

> Acute toxicity :

ACIDE MALIQUE DL (CAS: 6915-15-7)

Oral route :

LD50 = 3500 mg/kg

Species : Rat

OECD Guideline 401 (Acute Oral Toxicity)

Dermal route :

LD50 = 2000 mg/kg

Species : Rabbit

Inhalation route (Dusts/mist) :

LC50 = 1306 mg/l

Species : Rat

OECD Guideline 403 (Acute Inhalation Toxicity)

Duration of exposure : 4 h

CITRIC ACID MONOHYDRATE (CAS: 5949-29-1)

Oral route :

LD50 = 3000 mg/kg

Species : Rat

OECD Guideline 401 (Acute Oral Toxicity)

Serious damage to eyes/eye irritation :

ACIDE MALIQUE DL (CAS: 6915-15-7)

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Corneal haze :	Average score = 2 Species : Rabbit
Iritis :	Average score = 0.28 Species : Rabbit
Conjunctival redness :	Average score = 2.83 Species : Rabbit
Conjunctival oedema :	Average score = 1.72 Species : Rabbit

> **Specific target organ systemic toxicity - repeated exposure :**

N-C16-18 (EVEN NUMBERED) AND C18 (UNSATURATED) ALKYL PROPANE-1,3-DIAMINE (CAS: 1219010-04-4)

Oral route : C = 15 mg/kg bodyweight/day
Species : Rat
Duration of exposure : 28 days

AMINES, N-(C16-18 (EVEN NUMBERED) AND C18-UNSATD. ALKYL) TRIMETHYLENEDI-, ETHOXYLATED(NLP) (CAS: 1290049-56-7)

Oral route : C = 1 mg/kg bodyweight/day
Duration of exposure : 28 days

> **11.1.2. Mixture**

No toxicological data available for the mixture.

> **SECTION 12 : ECOLOGICAL INFORMATION**

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

> **12.1.1. Substances**

N-C16-18 (EVEN NUMBERED) AND C18 (UNSATURATED) ALKYL PROPANE-1,3-DIAMINE (CAS: 1219010-04-4)

Fish toxicity : Duration of exposure : 96 h

Crustacean toxicity : EC50 = 0.025 mg/l
Factor M = 10
Duration of exposure : 48 h

0,001 < NOEC <= 0,01 mg/l
Factor M = 1

AMINES, N-(C16-18 (EVEN NUMBERED) AND C18-UNSATD. ALKYL) TRIMETHYLENEDI-, ETHOXYLATED(NLP) (CAS: 1290049-56-7)

Fish toxicity : 0.01 < LC50 <= 0.1 mg/l
Factor M = 10
Duration of exposure : 96 h

0,001 < NOEC <= 0,01 mg/l
Factor M = 1

CITRIC ACID MONOHYDRATE (CAS: 5949-29-1)

Fish toxicity : LC50 > 760 mg/l
Species : Leuciscus idus
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 120 mg/l
Species : Daphnia magna

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Duration of exposure : 48 h

Algae toxicity :

ECr50 = 640 mg/l
Species : Scenedesmus quadricauda
Duration of exposure : 72 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

> **12.2.1. Substances**

N-C16-18 (EVEN NUMBERED) AND C18 (UNSATURATED) ALKYL PROPANE-1,3-DIAMINE (CAS: 1219010-04-4)
Biodegradability : Rapidly degradable.

AMINES, N-(C16-18 (EVEN NUMBERED) AND C18-UNSATD. ALKYL) TRIMETHYLENEDI-, ETHOXYLATED(NLP) (CAS: 1290049-56-7)
Biodegradability : Rapidly degradable.

CITRIC ACID MONOHYDRATE (CAS: 5949-29-1)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

14.1. UN number

-

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

-

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14.6. Special precautions for user

-

>SECTION 15 : REGULATORY INFORMATION

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

> - Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/1480 (ATP 13)

- Container information:

No data available.

- Particular provisions :

No data available.

15.2. Chemical safety assessment

No data available.

>SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

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

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

> Wording of the phrases mentioned in section 3 :

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H372	Causes damage to organs through prolonged or repeated exposure .
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

> Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS07 : Exclamation mark

GHS08 : Health hazard

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.