

Revision nr. 1 Dated 13/07/2015

## ACIDO-BROWN

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## Safety data sheet

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier** Code: Product name

ACIDO-BROWN IDEAL STAIN, Brown color

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Floor acids - Brown effect

1.3. Details of the supplier of the safety data sheet

Name Full address District and Country IDEAL WORK SRL Via Kennedy, 52 31030 Vallà di Riese Pio X (TV) Italia Tel. +39 0423/4535 Fax 0423/748429

e-mail address of the person responsible, responsible for the safety data sheet

sicurezza@idealwork.it

### 1.4. Emergency telephone number

For information in an emergency

Poison center: National Poisons Information Service (Birmingham Unit) City Hospital Dudley Rd Birmingham Telephone: +44 121 507 4123 Fax: +44 121 507 55 88 Emergency telephone: 844 892 0111

## **SECTION 2.** Hazards identification.

#### 2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

H290

H318

H317

Hazard classification and indication:
Substance or mixture corrosive to metals, category 1
Serious eye damage, category 1
Skin sensitization, category 1

May be corrosive to metals. Causes serious eye damage. May cause an allergic skin reaction.

### 2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



H290May be corrosive to metals.H318Causes serious eye damage.H317May cause an allergic skin reaction.



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Precautionary statements:

P280 P302+P352	Wear protective gloves and clothing. Wear eye and face protection. IF ON SKIN: wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or a doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P390	Absorb spillage to prevent material damage.
Contains:	IRON TRICHLORIDE IRON DICHLORIDE
	HYDROCHLORIC ACID

2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## **SECTION 3.** Composition/information on ingredients.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 1272/2008 (CLP).	Specific limits
IRON DICHLORIDE			
CAS. 7758-94-3	>5 < 10	Met. Corr. 1 H290 Acute Tox. 4 H302 Eye Dam. 1 H318	
EC. 231-843-4			
INDEX			
Reg. no. 01-2119498060-41-xxxx			
MANGANESE DICHLORIDE			
CAS. 64333-01-3	>1 <= 5	Acute Tox. 3 H301 Aquatic Chronic 3 H412	
EC. 231-869-6			
INDEX			
REACTION MASS OF CHROMIUM HYDROXIDE SULPHATE AND SODIUM SULPHATE CAS. 39380-78-4	>1 <= 5	Acute Tox. 4 H332	
EC. 914-129-3			
INDEX			
Reg. no. 01-2119458867-19-xxxx			
IRON TRICHLORIDE			
CAS. 7705-08-0	>1 < 3	Met. Corr. 1 H290 Acute Tox. 4 H302 Eye Dam. 1 H318 Skin Irrit. 2 H315 Skin Sens. 1 H317	
EC. 231-729-4			
INDEX			
Reg. no. 01-2119497998-05-xxxx			
HYDROCHLORIC ACID %			
CAS. 7647-01-0	>0.3 <= 1.5	Met. Corr. 1 H290 Skin Corr. 1B H314 STOT SE 3 H335	Skin Corr. 1B; H314: $C \ge 25 \%$ Skin Irrit. 2; H315: 10 % $\le C < 25 \%$ Eye Irrit. 2; H319: 10 % $\le C < 25 \%$ STOT SE 3; H335: $C \ge 10 \%$ Met. Corr. ; H290: $>= 0,1\%$
EC. 231-595-7			Mot. 0011. , 11200. 2- 0,170

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The full wording of hazard (H) phrases is given in section 16 of the sheet.

### SECTION 4. First aid measures.

#### 4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

## SECTION 5. Firefighting measures.

#### 5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Information not available.

#### 5.3. Advice for firefighters.

### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## **SECTION 6.** Accidental release measures.

#### 6.1. Personal precautions, protective equipment and emergency procedures.

FOR EMERGENCY PERSONNEL

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### FOR NON-EMERGENCY PERSONNEL

Alert personnel in charge of handling such emergencies. Move away from the incident area if you are not in possession of the protective devices individual listed in Section 8

#### 6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.



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## **SECTION 7. Handling and storage.**

#### 7.1. Precautions for safe handling.

Avoid contact with eyes and skin. Do not breathe vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

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

Store only in the original container. Store in a ventilated and dry place. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

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

Professional use only.

## **SECTION 8. Exposure controls/personal protection.**

#### 8.1. Control parameters.

Regulatory References:

## TLV-ACGIH

ACGIH 2014

IRON DICHLORIDE								
Threshold Limit Value.	Country	TWA/8h		STEL/15min				
туре	Country							
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		1						
Predicted no-effect concentration	n - PNEC.							
Normal value for fresh water sed Normal value for marine water so Normal value of STP microorgar Normal value for the terrestrial c	ediment nisms			49,5 49,5 500 55,5		mg/kg mg/kg mg/l mg/kg		
Health - Derived no-effect		MEL						
	Effects on consumers.				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.	VND	0,29 mg/kg/d	VND	0,29 mg/kg/d				
Inhalation.			VND	0,5 mg/m3	VND	2,01 mg/m3		
Skin.	VND	0,29 mg/kg bw/d	VND	0,29 mg/kg/d	VND	0,57 mg/kg/d	VND	0,57 mg/kg/d
REACTION MASS OF CHR		XIDE SULPHAT	E AND SODIUN	I SULPHATE				
Predicted no-effect concentration	n - PNEC.							
Normal value in fresh water (Cr( Normal value for fresh water sed Normal value for the terrestrial co	liment (Cr(III))	)		4700 31 2,8		mg/l mg/kg mg/kg		
Health - Derived no-effect		MEL						
	Effects on consumers.				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Inhalation.				systemic	VND	systemic 2,8 mg/m3	VND	systemic 0,9 mg/m3
IRON TRICHLORIDE								
Threshold Limit Value.								
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		1						
Predicted no-effect concentration	n - PNEC.							
Normal value for fresh water sed Normal value for marine water so Normal value of STP microorgar Normal value for the terrestrial co	ediment hisms			49,5 49,5 500 55,5		mg/kg mg/kg mg/l mg/kg		



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Health - Derived no-effect le	evel - DNEL / D Effects on	MEL			Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.	VND	0,29 mg/kg/d		-,		-,		-)
Inhalation.	VND	0,5 mg/m3			VND	2,01 mg/m3		
Skin.	VND	0,29 mg/kg/d			VND	0,57 mg/kg/d		
MANGANESE DICHLORIDE	1							
Threshold Limit Value.	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH (as Mn)		0,1						
HYDROCHLORIC ACID								
Threshold Limit Value. Type	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		8	5	15	10			
Predicted no-effect concentration	- PNEC.							
Normal value in fresh water Normal value in marine water Normal value for water, intermitte Normal value of STP microorgani	isms			0,036 0,036 0,045 0,036		mg/l mg/l mg/l mg/l		
Health - Derived no-effect le	evel - DNEL / D Effects on consumers.	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation.					15 mg/m3	VND	8 mg/m3	VND

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

#### 8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with work gloves resistant to permeation, class L (ex. butyl rubber – fluororubber) (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.



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Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## **SECTION 9.** Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

#### 9.2. Other information.

Information not available.

### **SECTION 10. Stability and reactivity.**

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

Contains IRON DICHLORIDE Corrosive for metals. Contains IRON TRICHLORIDE Esotermic reaction in contact with strong bases. Contais HYDROCHLORIC ACID HCI solution is a strong acid in water, it reacts violently with bases and it is corrosive.

**10.2. Chemical stability.** The product is stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions.** No hazardous reactions are foreseeable in normal conditions of use and storage.

**10.4. Conditions to avoid.** None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials.

Information not available.

#### 10.6. Hazardous decomposition products.

Information not available.



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## **SECTION 11. Toxicological information.**

## 11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

a) acute toxicity;

According to classification criteria set out in Annex I of EC Regulation 1272/2008, and considered the components, the mixture is not classified as acute toxic.

HYDROCHLORIC ACID LC50 (Inhalation).45,6 mg/l/5min Rat

IRON TRICHLORIDE LD50 (Oral).440 mg/kg mouse (female) LD50 (Dermal).> 2000 mg/kg Rat

IRON DICHLORIDE LD50 (Oral).500 mg/kg Rat (female) LD50 (Dermal).> 2000 mg/kg Rat

MANGANESE DICHLORIDE LD50 (Oral).250 mg/kg Rat

REACTION MASS OF CHROMIUM HYDROXIDE SULPHATE AND SODIUM SULPHATE LC50 (Inhalation).4,58  $\rm mg/l$ 

b) skin corrosion/irritation;

According to classification criteria set out in Annex I of EC Regulation 1272/2008, and considered the components, the mixture is not classified Corrosive or Skin irritating

TRICHLORIDE IRON: (OECD 404): irritant (rabbit) HYDROCHLORIC ACID: Skin irritation (OECD 404): corrosive (rat)

 serious eye damage/irritation; According to classification criteria set out in Annex I of EC Regulation 1272/2008, and considered the components, the mixture causes serious eye damage (Eye Dam. 1, H318). This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

IRON TRICHLORIDE: Risk of serious damage to eyes (Rabbit). HYDROCHLORIC ACID: Eye irritation (OECD 405): corrosive (determined on rabbit eyes)

d) respiratory or skin sensitisation;

According to classification criteria set out in Annex I of EC Regulation 1272/2008, and considered the components, the mixture is classified sensitizer (Skin Sens. 1, H317).

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

IRON TRICHLORIDE: it can cause skin sensitization.

e) germ cell mutagenicity;

According to classification criteria set out in Annex I of EC Regulation 1272/2008, and considered the components, the mixture is not classified as mutagen.

 f) carcinogenicity; According to classification criteria set out in Annex I of EC Regulation 1272/2008, and considered the components, the mixture is not classified as carcinogenic

g) reproductive toxicity;

According to classification criteria set out in Annex I of EC Regulation 1272/2008, and considered the components, the mixture is not classified as toxic for the reproduction.

h) STOT-single exposure;

According to classification criteria set out in Annex I of EC Regulation 1272/2008, and considered the components, the mixture is not classified as toxic for specific target organ - single exposure.



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i) STOT-repeated exposure;

According to classification criteria set out in Annex I of EC Regulation 1272/2008, and considered the components, the mixture is not classified as toxic for specific target organ - repeated exposure.

## j) aspiration hazard

According to classification criteria set out in Annex I of EC Regulation 1272/2008, and considered the components, the mixture is not classified as dangerous in case of inhalation.

## **SECTION 12. Ecological information.**

According to classification criteria set out in Annex I of EC Regulation 1272/2008, and considered the components, the mixture is not classified as dangerous for the environment.

#### 12.1. Toxicity.

MANGANESE DICHLORIDE	
LC50 - for Fish.	18,8 mg/l/7days Carassius auratus
LC50 – Fish.	6,67/mg/l/28days
LC50 - Bacteria	4mg/l/4,5h Pseudomonas putida
EC50 - for Crustacea.	> 11 mg/l/48h Daphnia magna
HYDROCHLORIC ACID	
LC50 - for Fish.	282 mg/l/96h
EC50 - for Crustacea.	< 56 mg/l/48h Daphnia magna
IRON TRICHLORIDE	
LC50 - for Fish.	20,3 mg/l/96h Lepomis macrochirus
EC50 - for Crustacea.	27,9 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants.	20 mg/l/3h Anabaena
IRON DICHLORIDE	
LC50 - for Fish.	46,6 mg/l/96h Oryzias latipes
EC50 - for Crustacea.	19 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic	17,7 mg/l/72h Pimephales promelas
Plants.	
REACTION MASS OF CHROMIUM	
HYDROXIDE SULPHATE AND SODIUM SULPHATE	
LC50 - for Fish.	>4000 mg/l/96h
12.2. Persistence and degradability.	
Information not available.	
12.3. Bioaccumulative potential.	

#### **12.3. Bioaccumulative potential.** Information not available.

**12.4. Mobility in soil.** Information not available.

**12.5. Results of PBT and vPvB assessment.** On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects.

Information not available.



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## **SECTION 13. Disposal considerations.**

#### 13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information.**

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

#### 14.1. UN number.

ADR/ADN/RID: 3264 IMDG: 3264 IATA: 3264

#### 14.2. UN proper shipping name.

ADR / RID:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (IRON DICHLORIDE, HYDROCHLORIC ACID)
IMDG:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (IRON DICHLORIDE, HYDROCHLORIC ACID)
IATA:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (IRON DICHLORIDE, HYDROCHLORIC ACID)

#### 14.3. Transport hazard class(es).

ADR/ADN/RID:	8
IMDG:	8
IATA:	8

#### 14.4. Packing group.

ADR/ADN/RID:	- iii
IMDG:	Ш
IATA:	Ш

#### 14.5. Environmental hazards.

ADR/ADN/RID:	NO
IMDG:	NO
Marine Pollutant:	NO
IATA:	NO

## **14.6. Special precautions for user.**

ADR/ADN/	RID	
Classificati Transport		C1 3
Hazard	identification	80
No:	lacitineation	00
Labels:		8
Special pro	ovisions:	274
Limited qu	antity:	5L
Excepted of	quantity:	E1
Tunnel res	triction code:	(E)
IMDG Labels: Special pro Limited qui	antity:	8 223 - 274 5L F1
Excepted of EmS:	quantity.	F-A, S-B
Stowage a	nd	SW2
segregatio		
Labels:		1. Acids
ΙΑΤΑ		





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innovative surfaces		ACIDO-BR	OWN		Page n. 10/12	
Labels:	8 (Corrosive)	8				
Excepted quantity: Packing instruction: Max net Qty/Pkg: Special provisions:	E1 Cargo: 856 60L A3 - A803	5	852 Limited Quantity: 5L	Y841 1L		
14.7. Transport in bulk ad	ccording to Annex I	I of MARPOL73/78 and the IBC	Code			
Transport in bulk must com	nply with Annex II of I	MARPOL 73/78 and the IBC Code	e where applicable.			
Packaging: 5 LT BUCKET - APPROVAL 3H1/Y1,6/150/15 – 14,8cm x 17,00cm x 24,50cmH – Weight 0,250KG						
SECTION 15. Reg	gulatory inform	nation.				
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.						
Seveso category.	None.					
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.						
Product. Point.	3					
Substances in Candidate L None.	<u>.ist (Art. 59 REACH).</u>					
Substances subject to authorisarion (Annex XIV REACH). None.						
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None.						
Substances subject to the None.	Rotterdam Conventio	<u>on:</u>				
Substances subject to the None.	Stockholm Conventic	on:				
Healthcare controls. Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.						
15.2. Chemical safety a	ssessment.					
A chemical safety assessment has been performed for the following contained substances. HYDROCHLORIC ACID IRON TRICHLORIDE IRON DICHLORIDE REACTION MASS OF CHROMIUM HYDROXIDE SULPHATE AND SODIUM SULPHATE						
SECTION 16. Other information.						
Text of hazard (H) indications mentioned in section 2-3 of the sheet:						

Met. Corr. 1Substance or mixture corrosive to metals, category 1Acute Tox. 3Acute toxicity, category 3



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Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- **OEL: Occupational Exposure Level**
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
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- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
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- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. 10th Edition
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**ACIDO-BROWN** 

Dated 13/07/2015 Printed on 13/07/2015

Revision nr. 1

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Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

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