SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH) Version : N°2 (28/03/2025) GEB

DETARTRANT G5



SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

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

1.1. Product identifier

Product name : DETARTRANT G5 UFI : 3R34-W8E1-260E-5VUV

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

Scale remover

1.3. Details of the supplier of the safety data sheet

Registered company name : GEB. Address : CS 62062.95972.ROISSY CDG CEDEX . France. Telephone : +33 1 48 17 99 99. Fax : +33 1 48 17 98 00. geb@geb.fr www.geb.fr

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

Association/Organisation : INRS.

Other emergency numbers

N/A

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 1A (Skin Corr. 1A, H314).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

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

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

Detergent mixture (see section 15).

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

Hazard pictograms :

GHS05	
Signal Word :	
DANGER	
Product identifiers : EC 231-595-7 HYDROGEN CHLO	RIDE
Hazard statements :	
H314	Causes severe skin burns and eye damage.
Precautionary statements - General :	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
Precautionary statements - Prevention :	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.

P280	Wear protective gloves/eye protection/face protection.
Precautionary statements - Response :	
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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.
Precautionary statements - Disposal :	
D F 0.4	

P501

Dispose of contents/container in accordance with local reglementation.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 59 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.

The mixture does not contain substances > = 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	Classification (EC) 1272/2008	Note	%
CAS: 7647-01-0	GHS05, GHS07	В	10 <= x % < 25
EC: 231-595-7	Dgr	[i]	
REACH: 01-2119484862-27-xxxx	Met. Corr. 1, H290		
	Skin Corr. 1A, H314		
HYDROGEN CHLORIDE	Eye Dam. 1, H318		
	STOT SE 3, H335		
CAS: 2809-21-4	GHS07, GHS05		1 <= x % < 2.5
EC: 220-552-8	Dgr		
REACH: 01-2119510391-53-XXXX	Met. Corr. 1, H290		
	Acute Tox. 4, H302		
ACIDE 1-HYDROXYETHANE	Eye Dam. 1, H318		
1-1-DIPHOSPHONIQUE			
INDEX: 607-002-00-6	GHS02, GHS05	В	0 <= x % < 0.1
CAS: 64-19-7	Dgr	[i]	
EC: 200-580-7	Flam. Liq. 3, H226		
REACH: 02-2119475328-30-XXXX	Skin Corr. 1A, H314		
ACETIC ACID			
CAS: 7647-01-0	GHS05, GHS07	[i]	0 <= x % < 0.1
EC: 231-595-7	Dgr		
	Met. Corr. 1, H290		
HYDROGEN CHLORIDE	Skin Corr. 1B, H314		
	STOT SE 3, H335		
Specific concentration limits:			
Identification	Specific concentration limits	ATE	
CAS: 7647-01-0	Eye Dam. 1: H318 C>= 25%	oral: ATE = 2222	mg/kg BW
EC: 231-595-7	Eye Irrit. 2: H319 10% <= C < 25%		
REACH: 01-2119484862-27-xxxx			

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INDEX: 607-002-00-6	Skin Corr. 1A: H314 C>= 90%	
CAS: 64-19-7	Skin Corr. 1B: H314 25% <= C < 90%	
EC: 200-580-7	Skin Irrit. 2: H315 10% <= C < 25%	
REACH: 02-2119475328-30-XXXX	Eye Dam. 1: H318 C>= 25%	
	Eye Irrit. 2: H319 10% <= C < 25%	
ACETIC ACID		

Information on ingredients :

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

[i] Substance for which maximum workplace exposure limits are available.

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 aera 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.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- powder

- dry chemical agents

- sprayed water or water mist

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

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)

- hydrogen chloride (HCl)

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

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.

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.

Storage

Keep out of reach of children.

Packaging

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

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- European Union :

CAS	VME-mg/m3	: VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
7647-01-0	8	5	15	10	-
64-19-7	25	10	50	20	-
7647-01-0	8	5	15	10	-
- UK :					
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
7647-01-0	1 ppm	5 ppm			
	2 mg/m3	8 mg/m3			
64-19-7	10 ppm	20 ppm			
	25 mg/m3	50 mg/m3			
7647-01-0	1 ppm	5 ppm			
	2 mg/m3	8 mg/m3			

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

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 ISO 16321.

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

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

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

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)

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

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

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)

9.1. Information on basic physical and chem	ical properties
Physical state Physical state :	Fluid liquid.
Colour Unspecified	
Odour Odour threshold :	Not stated.
Freezing point Freezing point / Freezing range :	Not stated.
Boiling point or initial boiling point and boil Boiling point/boiling range :	l ing range Not relevant.
Flammability Flammability (solid, gas) :	Not stated.
Lower and upper explosion limit Explosive properties, lower explosivity limit	(%)Not stated.
: Explosive properties, upper explosivity limit :	(%)Not stated.
Flash point Flash point interval :	Not relevant.
Auto-ignition temperature Self-ignition temperature :	Not relevant.
Decomposition temperature Decomposition point/decomposition range :	Not relevant.
pH pH (aqueous solution) : pH :	Not stated. Not stated. Slightly acidio
Kinematic viscosity	0,
Viscosity :	Not stated.
Solubility Water solubility : Fat solubility :	Soluble. Not stated.
Partition coefficient n-octanol/water (log val	
Partition coefficient: n-octanol/water :	Not stated.
Vapour pressure Vapour pressure (50°C) :	Not relevant.
Density and/or relative density Density :	> 1
Relative vapour density Vapour density :	Not stated.
Particle characteristics The mixture does not contain nanoforms.	
9.2. Other information No data available.	
9.2.1. Information with regard to physical h as No data available.	azard classes

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

No data available.

10.5. Incompatible materials

Keep away from :

- bases

- strong bases

10.6. Hazardous decomposition products

No data available.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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.

11.1.1. Substances

a) Acute toxicity : HYDROGEN CHLORIDE (CAS: 7647-01-0) Oral route :	LD50 = 2222 mg/kg body weight Species : Rabbit
Dermal route :	LD50 > 5010 mg/kg body weight
	Species : Rat
b) Skin corrosion/skin irritation : HYDROGEN CHLORIDE (CAS: 7647-01-0) Corrosivity :	Causes severe skin burns. OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
c) Serious damage to eyes/eye irritation : HYDROGEN CHLORIDE (CAS: 7647-01-0) Causes serious eye damage. Corneal haze :	Average score >= 3 OECD Guideline 405 (Acute Eye Irritation / Corrosion)

d) Respiratory or skin sensitisation :

HYDROGEN CHLORIDE (CAS: 7647-01-0)

Species : Others

Guinea Pig Maximisation Test (GMPT) :

Non-sensitiser.

Species : Others

e) Germ cell mutagenicity :	
No data available.	
f) Carcinogenicity :	
No data available.	
g) Reproductive toxicant :	
No data available.	
h) Specific target organ systemic toxicity - single exposure :	
No data available.	
i) Specific target organ systemic toxicity - repeated exposure : No data available.	
j) Aspiration hazard :	
No data available.	
11.1.2. Mixture	
No toxicological data available for the mixture.	
a) Acute toxicity :	
No data available.	
b) Skin corrosion/skin irritation :	
No data available.	
c) Serious damage to eyes/eye irritation :	
No data available.	
d) Respiratory or skin sensitisation :	
No data available.	
e) Germ cell mutagenicity :	
No data available.	
f) Carcinogenicity :	
No data available.	
g) Reproductive toxicant :	
No data available.	
h) Specific target organ systemic toxicity - single exposure :	
No data available.	
i) Specific target organ systemic toxicity - repeated exposure :	
No data available.	
j) Aspiration hazard :	
No data available.	
11.1.2.2 Other information	
11.2. Information on other hazards	
Monograph(s) from the IARC (International Agency for Research on Cancer) :	
CAS 7631-86-9 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.	
CAS 7647-01-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.	
CAS 7647-01-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.	
ECTION 12 : ECOLOGICAL INFORMATION	
12.1. Toxicity	
12.1.1. Substances	
HYDDOCEN CHI ODIDE (CASt 7647 01 0)	

HYDROGEN CHLORIDE (CAS: 7647-01-0) Fish toxicity :

LC50 = 20.5 mg/l Species : Lepomis macrochirus Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 0.45 mg/l

Species : Daphnia magna Duration of exposure : 48 h REACH Method C.2 (Acute Toxicity for Daphnia)

Algae toxicity :

ECr50 = 0.73 mg/l Species : Chlorella vulgaris Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test)

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

HYDROGEN CHLORIDE (CAS: 7647-01-0) 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. Endocrine disrupting properties

No data available.

12.7. 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, 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

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 - IMDG 2022 [41-22] - ICAO/IATA 2024 [65]).

14.1. UN number or ID number

3264

14.2. UN proper shipping name

UN3264=CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrogen chloride)

14.3. Transport hazard class(es)





14.4. Packing group

I

14.5. Environmental hazards

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	8	C1	Ι	8	88	0	274	E0	1	E
										_
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation	
	8	-	Ι	0	F-A. S-B	274	E0	Category B SW2	SGG1 SG36 SG49	
<u></u>	•			-			·	•		
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	8	-	Ι	850	0.5 L	854	2.5 L	A3 A803	EO	
	8	-	Ι	Forbidden	Forbidden	-	-	A3 A803	EO]

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. Maritime transport in bulk according to IMO instruments

No data available.

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. 2022/692 (ATP 18)

Container information:

Packaging to be fitted with child-resistant fastenings (see EC Regulation No. 1272/2008, Annex II, Part 3).

Containers to be fitted with a tactile warning of danger (see EC Regulation No. 1272/2008, Annex II, Part 3).

Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH): https://echa.europa.eu/substances-restricted-under-reach.

Explosives precursors :

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

Particular provisions :

No data available.

Labelling for detergents (EC Regulation No. 648/2004,907/2006) :

- less than 5 % : phosphonates

- less than 5 % : non-ionic surfactants

Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):

The mixture does not contain a persistent organic pollutant.

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 :

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Abbreviations and acronyms :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

UFI : Unique formulation identifier.

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

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 : Wassergefahrdungsklasse (Water Hazard Class).

GHS05 : Corrosion

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.