

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Product name : E.P.G.C. - REANET 35
Product code : LIQ0682
Type of product : Detergent

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

E.P.G.C.
13, Rue des Forts
59960 Neuville-en-Ferrain - France
T 0033 3 20 25 06 21
info@epgc.com - www.epgc.com

1.4. Emergency telephone number

Emergency number : INRS/ORFILA (France) : 33 1 45 42 59 59

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Skin Corr. 1A	H314
Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 3	H412

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS05

GHS09

Signal word (CLP) : Danger

Hazardous ingredients : potassium hydroxide, sodium hypochlorite

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P260 - Do not breathe vapours
P264 - Wash hands, forearms and face thoroughly after handling
P280 - Wear protective gloves, protective clothing, eye protection, face protection
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/shower
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P501 - Dispose of contents/container to hazardous or special waste collection point

EUH phrases : EUH206 - Warning! Do not use together with other products. May release dangerous gases (chlorine)

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
potassium hydroxide	(CAS No) 1310-58-3 (EC no) 215-181-3 (EC index no) 019-002-00-8 (REACH-no) 01-2119487136-33	15 - 30	Xn; R22 C; R35
disodium metasilicate	(CAS No) 6834-92-0 (EC no) 229-912-9 (EC index no) 014-010-00-8 (REACH-no) 01-2119449811-37	1 - 5	C; R34 Xi; R37
sodium hypochlorite	(CAS No) 7681-52-9 (EC no) 231-668-3 (EC index no) 017-011-00-1 (REACH-no) 01-2119488154-34	1 - 5	C; R34 R31 N; R50 Xi; R37

Name	Product identifier	Specific concentration limits
potassium hydroxide	(CAS No) 1310-58-3 (EC no) 215-181-3 (EC index no) 019-002-00-8 (REACH-no) 01-2119487136-33	(0,5 =< C < 2) Xi;R36/38 (2 =< C < 5) C;R34 (C >= 5) C;R35
sodium hypochlorite	(CAS No) 7681-52-9 (EC no) 231-668-3 (EC index no) 017-011-00-1 (REACH-no) 01-2119488154-34	(C >= 5) R31

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
potassium hydroxide	(CAS No) 1310-58-3 (EC no) 215-181-3 (EC index no) 019-002-00-8 (REACH-no) 01-2119487136-33	15 - 30	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
disodium metasilicate	(CAS No) 6834-92-0 (EC no) 229-912-9 (EC index no) 014-010-00-8 (REACH-no) 01-2119449811-37	1 - 5	Skin Corr. 1B, H314 STOT SE 3, H335
sodium hypochlorite	(CAS No) 7681-52-9 (EC no) 231-668-3 (EC index no) 017-011-00-1 (REACH-no) 01-2119488154-34	1 - 5	Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411

Name	Product identifier	Specific concentration limits
potassium hydroxide	(CAS No) 1310-58-3 (EC no) 215-181-3 (EC index no) 019-002-00-8 (REACH-no) 01-2119487136-33	(0,5 =< C < 2) Eye Irrit. 2, H319 (0,5 =< C < 2) Skin Irrit. 2, H315 (2 =< C < 5) Skin Corr. 1B, H314 (C >= 5) Skin Corr. 1A, H314
sodium hypochlorite	(CAS No) 7681-52-9 (EC no) 231-668-3 (EC index no) 017-011-00-1 (REACH-no) 01-2119488154-34	(C >= 5)

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person.
First-aid measures after inhalation	: Assure fresh air breathing. Keep victim at rest in half upright position. If not breathing, give artificial respiration.
First-aid measures after skin contact	: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Contact ophthalmologist immediately.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth. Take to hospital.

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

Symptoms/injuries	: Causes severe skin burns and eye damage.
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Symptoms/injuries after inhalation	: Sore throat. Cough. Shortness of breath. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Redness, pain. Burns.
Symptoms/injuries after eye contact	: Burns. Redness, pain. Blurred vision.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Can occur: gastrointestinal disturbance.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry powder. Foam. Carbon dioxide. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: At high temperatures : Toxic and corrosive vapours are released.
Explosion hazard	: Product is not explosive.
Hazardous decomposition products in case of fire	: Thermal decomposition generates : carbon oxides (CO and CO ₂). Chlorine.

5.3. Advice for firefighters

Precautionary measures fire	: Self-contained breathing apparatus when in close proximity to fire. Wear proper protective equipment.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Ventilate area.
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6.1.1. For non-emergency personnel

Protective equipment	: Personal protection. See Heading 8.2.
Emergency procedures	: Evacuate area.

6.1.2. For emergency responders

Protective equipment	: Personal protection. See Heading 8.2. Equip cleanup crew with proper protection.
Emergency procedures	: Stop leak if safe to do so. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Evacuate unnecessary personnel.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Dike the product for recovery.
Methods for cleaning up	: Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite or kieselguhr. Dilute residue with water. Use non-corrodable disposal containers.
Other information	: Spill area may be slippery.

6.4. Reference to other sections

See Heading 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Do not breathe vapours.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Install a retention tank.
Storage conditions	: Keep only in the original container in a cool, well-ventilated place away from moisture. Keep container closed when not in use.
Incompatible products	: Acids.
Incompatible materials	: metals.
Storage temperature	: 4 - 25 °C
Heat and ignition sources	: Store away from direct sunlight or other heat sources.

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Prohibitions on mixed storage	: Strong acids.
Storage area	: Store in dry, cool, well-ventilated area.
Special rules on packaging	: Keep only in original container. Do not store in corrodable metal.
Packaging materials	: PEHD.

7.3. Specific end use(s)

Cleaning product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls	: Ensure adequate air ventilation. Install a retention tank.
Personal protective equipment	: Face shield. Gloves. Corrosionproof clothing.
Materials for protective clothing	: Use chemically protective clothing
Hand protection	: Wear suitable gloves resistant to chemical penetration. (EN 374)
Eye protection	: Chemical goggles or face shield. Eye protection (standard EN 166)
Skin and body protection	: Use chemically protective clothing and boots (type PVC).
Respiratory protection	: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment



Thermal hazard protection	: None necessary.
Environmental exposure controls	: Prevent entry to sewers and public waters. Avoid release to the environment.
Other information	: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. The equipment must be cleaned thoroughly after each use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless. light yellow.
Odour	: Chlorine.
Odour threshold	: Not established.
pH	: 13 - 14
Relative evaporation rate (butylacetate=1)	: Not tested
Melting point	: Not tested
Freezing point	: Not tested
Boiling point	: Not tested
Flash point	: Not tested
Auto-ignition temperature	: Not tested
Decomposition temperature	: Not tested
Flammability (solid, gas)	: Not applicable
Vapour pressure	: Not tested
Relative vapour density at 20 °C	: Not tested
Relative density	: 1,25 - 1,35
Solubility	: Material highly soluble in water.
Log Pow	: Not tested
Viscosity, kinematic	: Not tested
Viscosity, dynamic	: Not tested
Explosive properties	: Product is not explosive.
Oxidising properties	: Not applicable.
Explosive limits	: No data available

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9.2. Other information

Additional information : None

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with : Acids.

10.2. Chemical stability

Stable under normal conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas. Chlorine.

10.4. Conditions to avoid

High temperature. Heat. Direct sunlight.

10.5. Incompatible materials

Acids. metals.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). At high temperature may liberate toxic gases. Chlorine.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

sodium hypochlorite (7681-52-9)

LD50 oral rat	> 2000 mg/kg
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LD50 dermal rabbit	> 2000 mg/kg
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LC50 inhalation rat (Vapours - mg/l/4h)	> 42 mg/l/4h
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disodium metasilicate (6834-92-0)

LD50 oral rat	1152 - 1349 mg/kg
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LD50 dermal rat	> 5000 mg/kg
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Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: 13 - 14

Serious eye damage/irritation : Causes serious eye damage.
pH: 13 - 14

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : May cause pH changes in aqueous ecological systems.

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LC50 fishes 1	< mg/l
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potassium hydroxide (1310-58-3)

LC50, Fish	80 mg/l (24 Hours)
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sodium hypochlorite (7681-52-9)

LC50, Fish, Pimephales promelas	0,22 - 0,62 mg/l (96 Hours)
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EC50, aquatic invertebrates, Daphnia magna	0.141 mg/l (48 Hours, (OCDE 202))
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CSEO, algae	0.0021 mg/l (7 days)
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disodium metasilicate (6834-92-0)

EC50, algae, Scenedesmus subspicatus	207 mg/l (72 Hours)
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LC50, Fish, Branchydanio rerio	210 mg/l (96 Hours)
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EC0, daphnia, Daphnia magna	> 500 mg/l (24 Hours)
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12.2. Persistence and degradability

potassium hydroxide (1310-58-3)	
Persistence and degradability	Inorganic product.
sodium hypochlorite (7681-52-9)	
Persistence and degradability	Inorganic product.
disodium metasilicate (6834-92-0)	
Persistence and degradability	Inorganic product.

12.3. Bioaccumulative potential

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Log Pow	Not tested
potassium hydroxide (1310-58-3)	
Bioaccumulative potential	Not applicable.
sodium hypochlorite (7681-52-9)	
Bioaccumulative potential	Slightly or not bioaccumulative.
disodium metasilicate (6834-92-0)	
Bioaccumulative potential	Not expected.

12.4. Mobility in soil

potassium hydroxide (1310-58-3)	
Ecology - soil	Soluble in water.
disodium metasilicate (6834-92-0)	
Ecology - soil	Soluble in water.

12.5. Results of PBT and vPvB assessment

Component	
potassium hydroxide (1310-58-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
disodium metasilicate (6834-92-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Remove to an authorized waste treatment plant.
Sewage disposal recommendations	: May be discharged to wastewater treatment installation.
Waste disposal recommendations	: Dispose of this material and its container at hazardous or special waste collection point.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 20 01 29* - detergents containing dangerous substances
H code	: H8 - 'Corrosive': substances and preparations which may destroy living tissue on contact.
R code/ D code	: D9 - Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcination, etc.)

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: 3266
UN-No. (IMDG)	: 3266
UN-No.(IATA)	: 3266
UN-No.(ADN)	: 3266
UN-No. (RID)	: 3266

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Proper Shipping Name (IATA)	: Corrosive liquid, basic, inorganic, n.o.s.
Proper Shipping Name (ADN)	: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Proper Shipping Name (RID)	: Not applicable

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Transport document description (ADR) : UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (CONTAINS ; potassium hydroxide), 8, III, (E), ENVIRONMENTALLY HAZARDOUS

Transport document description (IMDG) : UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8

Danger labels (ADR) : 8



IMDG

Transport hazard class(es) (IMDG) : 8

Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8

Hazard labels (IATA) : 8



ADN

Transport hazard class(es) (ADN) : 8

Danger labels (ADN) : 8



RID

Transport hazard class(es) (RID) : 8

Danger labels (RID) : 8



14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : Not applicable

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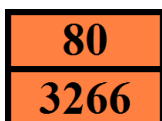
14.5. Environmental hazards

Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR)	: C5
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 5L
Excepted quantities (ADR)	: E1
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Hazard identification number (Kemler No.)	: 80
Orange plates	:



Tunnel restriction code (ADR)	: E
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14.6.2. Transport by sea

Special provisions (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
MFAG-No	: 154

14.6.3. Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3
ERG code (IATA)	: 8L

14.6.4. Inland waterway transport

Classification code (ADN)	: C5
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Not subject to ADN	: No

14.6.5. Rail transport

Carriage prohibited (RID)	: No
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions
E.P.G.C. - REANET 35 is not on the REACH Candidate List
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

Detergent Regulation : Labelling of contents:

Component	%
phosphonates, chlorine-based bleaching agents, polycarboxylates	<5%

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

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

SECTION 16: Other information

Indication of changes:

	Supersedes	Added	
	Date of issue	Modified	
	Revision date	Modified	
14	Transport category (ADR)	Modified	

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
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
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
R22	Harmful if swallowed
R31	Contact with acids liberates toxic gas
R34	Causes burns
R35	Causes severe burns
R37	Irritating to respiratory system
R50	Very toxic to aquatic organisms
C	Corrosive
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product