SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: FIXCLEAN

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

Identified uses: Cleaning agent
Uses advised against: For industrial use only

1.3 Details of the supplier of the safety data sheet

Manufacturer

Agfa-Gevaert NV
Septestraat 27
2640 Mortsel
Belgium

Telephone: +32 3 4445501
Fax: +32 3 4445503
E-mail: electronic.sds@agfa.com

National Supplier

Druck Ltd.
Inspection Technologies division
Fir Tree Lane
GROBY
Leicestershire
LE6 0FH
GREAT BRITAIN

Telephone: +44(0)8456015771
E-mail: trans.geituksales@ge.com

1.4 Emergency telephone number:

Emergency telephone number (Belgium) : +32 3 4443333 (24h/24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

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Physical Hazards

Corrosive to metal	Category 1	H290: May be corrosive to metals.

Health Hazards

Skin corrosion	Category 1	H314: Causes severe skin burns and eye damage.
Serious eye damage	Category 1	H318: Causes serious eye damage.

2.2 Label Elements

Contains: Sodium hydroxide

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Signal Word: Danger

Hazard Statement(s):
H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.

Precautionary Statements

Prevention:
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310: Immediately call a POISON CENTER or doctor/ physician.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

2.3 Other hazards

Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Sodium hydroxide	20 - <50%	1310-73-2		01-2119457892-27-XXXX;	No data available.	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
# This substance has workplace exposure limit(s).
This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
Sodium hydroxide	Classification: Met. Corr.: 1: H290; Skin Corr.: 1A: H314; Eye Dam.: 1: H318;	None.

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	Supplemental label information**:** None known.	

CLP: Regulation No. 1272/2008.
The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Get medical attention if symptoms occur.

Inhalation: Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen.

Skin Contact: Call a physician or poison control center immediately. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Destroy or thoroughly clean contaminated shoes.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. Do not induce vomiting without advice from poison control center.

Personal Protection for First-aid Responders: CAUTION! First aid personnel must be aware of own risk during rescue! See Section 8 of the SDS for Personal Protective Equipment.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: See section 11 of the SDS for additional information on health hazards.

Hazards: See section 11 of the SDS for additional information on health hazards.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

5.1 Extinguishing media

Suitable extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

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5.2 Special hazards arising from the substance or mixture: During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire-fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Avoid breathing dust/fume/gas/mist/vapors/spray. Provide adequate ventilation.

6.1.1 For non-emergency personnel: Use personal protective equipment.

6.1.2 For emergency responders: Warn everybody of potential hazards and evacuate if necessary. Use personal protective equipment.

6.2 Environmental Precautions: Do not contaminate water sources or sewer. Prevent entry into waterways, sewer, basements or confined areas. Contact local authorities in case of spillage to drain/aquatic environment.

6.3 Methods and material for containment and cleaning up: Prevent further leakage or spillage if safe to do so. Stop the flow of material, if this is without risk. Small Spillages: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Clean surface thoroughly to remove residual contamination. Large Spillages: Dike far ahead of larger spill for later recovery and disposal.

6.4 Reference to other sections: See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures (e.g. Local and general ventilation): Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Safe handling advice: Do not get in eyes. Wash hands thoroughly after handling. Do not get in

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eyes, on skin, on clothing.

Contact avoidance measures: Contact with incompatible materials.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions: Store in corrosive resistant container with a resistant inner liner. Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials. Store locked up.

Safe packaging materials: Suitable materials**:** Keep in original container.

7.3 Specific end use(s): For industrial use only

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Form of exposure	Exposure Limit Values	Source
Sodium hydroxide	STEL 15 minutes		2 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
Sodium hydroxide	General population	Inhalation	Local, long-term; 1 mg/m3	irritation respiratory tract
	Workers	Inhalation	Local, long-term; 1 mg/m3	irritation respiratory tract
	Workers	Eyes	Local effect;	High hazard (no threshold derived)
	General population	Eyes	Local effect;	High hazard (no threshold derived)

8.2 Exposure controls

Appropriate Engineering Controls: Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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Monitoring methods: BS EN 14042:2003: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

Individual protection measures, such as personal protective equipment

General information Follow training instructions when handling this material. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection: Safety goggles

Hand Protection: Protective gloves should be used if there is a risk of direct contact or splash., Chemical resistant gloves required for prolonged or repeated contact., Butyl rubber., Glove thickness: > 0.70 mm, Break-through time: > 480 min, Risk of splashes:, Nitrile rubber., Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable., The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Skin and Body Protection: Safety clothes : long sleeved clothing EN13688

Respiratory Protection: In case of inadequate ventilation, use respiratory protection. Seek advice from local supervisor.

Hygiene measures: Do not get in eyes. Observe good industrial hygiene practices.

Environmental Controls: Do not empty into drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Odorless
Odor Threshold:	No data available.
Freezing point:	< 32 °F/< 0 °C
Boiling Point:	> 212 °F/> 100 °C
Flammability:	Not flammable.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.

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Flash Point:	Not applicable Aqueous solution.
Self-ignition:	Not applicable Aqueous solution.
Decomposition Temperature:	No data available.
pH:	13 (77 °F/25 °C)
Viscosity	
Dynamic viscosity:	No data available.
Kinematic viscosity:	Not determined.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable Mixture
Vapor pressure:	23 hPa (68 °F/20 °C)
Relative density:	1.3270 (68 °F/20 °C)
Density:	No data available.
Bulk density:	No data available.
Relative vapor density:	No data available.

9.2 Other information

Explosive properties:	Not applicable
Oxidizing properties:	Not applicable
Metal Corrosion:	10 mm/a
Evaporation Rate:	Almost no evaporation (20°C).
VOC Content:	EC Directive 1999/13: 0 g/l ~0 % (calculated)

SECTION 10: Stability and reactivity

10.1	**Reactivity:**	Material is stable under normal conditions. Material is stable under normal conditions.
10.2	**Chemical Stability:**	Material is stable under normal conditions. Material is stable under normal conditions.
10.3	**Possibility of hazardous reactions:**	Reacts violently with strong acids. Not known.
10.4	**Conditions to avoid:**	Reacts violently with strong acids. Avoid heat or contamination.
10.5	**Incompatible Materials:**	Metals. None known.
10.6	**Hazardous Decomposition Products:**	By heating and fire, harmful vapors/gases may be formed.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.

Skin Contact: Moderately irritating to skin with prolonged exposure.

Eye contact: Causes serious eye damage.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

11.1 Information on toxicological effects

Acute toxicity

Oral
Product: Not classified for acute toxicity based on available data.
Components:
Sodium hydroxide — No data available.

Dermal
Product: Not classified for acute toxicity based on available data.
Components:
Sodium hydroxide — No data available.

Inhalation
Product: Not classified for acute toxicity based on available data.

Components:
Sodium hydroxide — No data available.

Repeated dose toxicity
Product: No data available.
Components:
Sodium hydroxide — No data available.

Skin Corrosion/Irritation:
Product: Causes severe skin burns and eye damage.

Components:
Sodium hydroxide — Corrosive

Serious Eye Damage/Eye Irritation:
Product: Causes serious eye damage.
Components:
Sodium hydroxide — Corrosive

Respiratory or Skin Sensitization:
Product: Based on available data, the classification criteria are not met.

Components:
Sodium hydroxide — No data available.

Germ Cell Mutagenicity

Product: Based on available data, the classification criteria are not met.

In vitro
Components:
Sodium hydroxide — No data available.

In vivo
Components:
Sodium hydroxide — No data available.

Carcinogenicity
Product: Based on available data, the classification criteria are not met.

Components:
Sodium hydroxide — No data available.

Reproductive toxicity
Product: Based on available data, the classification criteria are not met.

Components:
Sodium hydroxide — No data available.

Specific Target Organ Toxicity - Single Exposure
Product: Based on available data, the classification criteria are not met.

Components:
Sodium hydroxide — No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: Based on available data, the classification criteria are not met.

Components:
Sodium hydroxide — No data available.

Aspiration Hazard
Product: Based on available data, the classification criteria are not met.

Components:
Sodium hydroxide — No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Remarks:

Based on available data, the classification criteria are not met.

Fish
Product: No data available.

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Components
Sodium hydroxide — LC 50 (Leuciscus idus, 48 h): 189 mg/l Experimental result, Supporting study

Aquatic Invertebrates
Product: No data available.

Components
Sodium hydroxide — No data available.

Toxicity to Aquatic Plants
Product: No data available.

Components
Sodium hydroxide — No data available.

Toxicity to microorganisms
Product: No data available.

Components
Sodium hydroxide — No data available.

Chronic Toxicity

Remarks:

Based on available data, the classification criteria are not met.

Fish
Product: No data available.

Components
Sodium hydroxide — No data available.

Aquatic Invertebrates
Product: No data available.

Components
Sodium hydroxide — No data available.

Toxicity to Aquatic Plants
Product: No data available.

Components
Sodium hydroxide — No data available.

12.2 Persistence and Degradability

Biodegradation
Product: No data available.

Components
Sodium hydroxide — No data available.

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BOD/COD Ratio

Product No data available.

Components

Sodium hydroxide No data available.

12.3 Bioaccumulative potential

Product: No data available.

Components

Sodium hydroxide No data available.

12.4 Mobility in soil

Product: No data available.

Components

Sodium hydroxide No data available.

12.5 Results of PBT and vPvB assessment

Product: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components

Sodium hydroxide No data available.

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local laws. Wash before disposal. Dispose to controlled facilities.

Since emptied containers retain product residue, follow label warnings even after container is emptied. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Contaminated Packaging: Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1 UN number or ID number: UN 1824

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14.2 UN Proper Shipping Name:	SODIUM HYDROXIDE SOLUTION
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
Hazard No. (ADR):	80
Tunnel restriction code:	(E)
14.4 Packing Group:	II
Limited quantity	1.00L
Excepted quantity	E2
14.5 Environmental Hazards:	No
14.6 Special precautions for user:	–

RID

14.1 UN number or ID number:	UN 1824
14.2 UN Proper Shipping Name	SODIUM HYDROXIDE SOLUTION
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
14.4 Packing Group:	II
14.5 Environmental Hazards:	No
14.6 Special precautions for user:	–

ADN

14.1 UN number or ID number:	UN 1824
14.2 UN Proper Shipping Name	SODIUM HYDROXIDE SOLUTION
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
14.4 Packing Group:	II
14.5 Environmental Hazards:	No
14.6 Special precautions for user:	–

IMDG

14.1 UN number or ID number:	UN 1824
14.2 UN Proper Shipping Name:	SODIUM HYDROXIDE SOLUTION
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
EmS No.:	F-A, S-B
14.4 Packing Group:	II
<03EHS_L_TEXT(ZAGFA-ARI-S-100017321)[D:Limited quantity]>	1.00L
Excepted quantity	E2
14.5 Environmental Hazards:	Not Regulated.
14.6 Special precautions for user:	–

IATA

14.1 UN number or ID number:	UN 1824
14.2 Proper Shipping Name:	Sodium hydroxide solution
14.3 Transport Hazard Class(es):	
Class:	8

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Label(s):	8
14.4 Packing Group:	II
Limited quantity	0.50L
Excepted quantity	E2
14.5 Environmental Hazards:	No
14.6 Special precautions for user:	–

Other information

Passenger and cargo aircraft:	Allowed.
Cargo aircraft only:	Allowed.

14.7 Maritime transport in bulk according to IMO instruments: not applicable

SECTION 15: Regulatory information

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

EU Regulations

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): None present or none present in regulated quantities.

EU. REACH Annex XIV, Substances Subject to Authorization: None present or none present in regulated quantities.

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Number on list
Sodium hydroxide	1310-73-2	75, 75, 3
EDTA-tetrasodium salt	64-02-8	75, 75, 3

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: None present or none present in regulated quantities.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: None present or none present in regulated quantities.

15.2 Chemical safety assessment: Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms:

ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
ADNR	Accord européen relatif au transport international des marchandises Dangereuses par la

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	Rhin
AGW	Arbeitsplatzgrenswerte (DE)
ATEmix	Acute toxicity estimate of the mixture
CLP	Classification, Labelling and Packaging of substances and mixtures
CMR	carcinogenicity, mutagenicity and toxicity for reproduction
DNEL	Derived No Effect Level
EC0	Effective Concentration 0%
EC5	Effective Concentration 5%
EC10	Effective Concentration 10%
EC50	Median Effective Concentration
EC100	Effective Concentration 100%
EH40 WEL	Workplace Exposure Limit (GB)
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IC50	inhibitory concentration 50%
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
IUCLID	International Uniform ChemicaL Information Database
LC50	Lethal Concentration 50%
LC100	Lethal Concentration 100%
LOAEL	Lowest Observed Adverse Effect Level
LDL0	Lethal Dose (minimum found to be lethal)
LD50	Lethal Dose 50%
MAC	Maximaal Aanvaardbare Concentratie (NL)
MAK	Maximale Arbeitsplatz-Konzentration
NOAEL	No Observed Adverse Effect Level
NOEL	No Observed Effect Level
NOEC	No Observed Effect Concentration
OEL	Occupatianal Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Transport of Dangerous Goods by Rail
STEL	Short Term Exposure Limit
TLV	Treshold Limit Value
TRGS900	Arbeitsplatzgrenswerte (DE)
TWA	Time Weighted Average
VOC	Volatile Organic Compound
vPvB	very Persistent and very Bioaccumulative substance

Key literature references and sources for data: Safety Data Sheet from the supplier.
ECHA

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 as amended.	**Classification procedure**
Corrosive to metal, Category 1	Calculation method

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Skin corrosion, Category 1	Calculation method
Serious eye damage, Category 1	Calculation method

Wording of the statements in section 2 and 3

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Training information: Follow training instructions when handling this material.

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.