SAFETY DATA SHEET

BAKER CLEAN™ 5

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	15.05.2008
Revision date	21.03.2023

1.1. Product identifier

Product name	BAKER CLEAN™ 5
Synonyms	2707DF

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

Product group	Liquid
Use of the substance / mixture	Detergent.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name	Baker Hughes Norge AS
Office address	Kontinentalvegen 8
Postal address	Kontinentalvegen 8
Postcode	4056
City	TANANGER
Country	Norway
Telephone number	+47 51 71 75 00
Fax	+47 51 71 75 01
Email	BHNorwayHS&ETeam@bakerhughes.com
Website	www.bakerhughes.com

1.4. Emergency telephone number

Emergency telephone	Telephone number: +47 21 93 06 78 Description: CHEMTREC Nødtelefonnummer (NO)

Telephone number: +47 22 59 13 00
Description: Giftinformasjonen

Telephone number: +47 51 69 46 24
Description: Beredskapstelefon

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Eye Irrit. 2; H319
Substance / mixture hazardous properties	Causes serious eye irritation.

2.2. Label elements

Hazard pictograms (CLP)

Signal word	Warning
Hazard statements	H319 Causes serious eye irritation.
Precautionary statements	P280 Wear protective gloves / protective clothing / eye protection / face protection. P264 Wash hendene thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice / attention.

2.3. Other hazards

PBT / vPvB	Not available.
Health effect	This chemical contains a substance which may penetrate the skin.
Other hazards	None of the substances listed in section 3.2 is listed on ECHA's Endocrine disruptor assessment list.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
C9-11 Alkylalcohol, ethoxylated	CAS No.: 68439-46-3	Eye Irrit. 2; H319	≥ 25 ≤ 50 %	
Dipropylene Glycol Monomethyl Ether	CAS No.: 34590-94-8 EC No.: 252-104-2 REACH Reg. No.: 01-2119450011-60		≤ 10 %	2

[2]Substance with a workplace exposure limit

Substance comments	For substances without REACH registration number, no information has been provided by the subcontractor or manufacturer. See section 16 for explanation of hazard statements (H) listed above.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Emergency telephone number: see section 1.4. In case of unconsciousness or severe accidents, call 113.
Inhalation	Fresh air and rest. Get medical attention if any discomfort continues.
Skin contact	Rinse the skin immediately with lots of water. Remove contaminated clothing. Get medical attention if any discomfort continues.
Eye contact	Promptly rinse eyes with plenty of water (tempered at 20-30°C) for at least 15 minutes. Remove any contact lenses. Hold the eyelids apart. Contact physician if irritation persists.
Ingestion	Rinse mouth with water. Drink a few glasses of water or milk. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if any discomfort continues.
Recommended personal protective equipment for first aid responders	It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

Acute symptoms and effects	Skin contact: Parts of the chemical might be absorbed through the skin. Eye contact: Causes serious eye irritation. Irritation, burning, lachrymation, blurred vision after liquid splash. Ingestion: Irritates the mouth, esophagus and digestive tract.

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

Other information	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Improper extinguishing media	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The chemical is not classified as flammable. Containers can burst violently when heated, due to excess pressure build-up.
Hazardous combustion products	May include, but is not limited to: Carbon monoxide (CO). Carbon dioxide (CO_2). Unspecified organic compounds.

5.3. Advice for firefighters

Personal protective equipment	Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8.
Other information	Containers close to fire should be removed immediately or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Provide adequate ventilation. Use protective equipment as referred to in section 8. Avoid inhalation of vapours and contact with skin and eyes.

6.2. Environmental precautions

Environmental precautionary measures	Do not allow to enter into sewer, water system or soil.

6.3. Methods and material for containment and cleaning up

Clean up	Stop the leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Collect in a suitable container and dispose as hazardous waste according to section 13.

6.4. Reference to other sections

Other instructions	See also sections 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Provide adequate ventilation. Use protective equipment as referred to in section 8. Avoid inhalation of vapours and contact with skin and eyes.

Protective safety measures

Advice on general occupational hygiene	Do not eat, drink or smoke during work. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep upright.

Conditions for safe storage

Packaging compatibilities	Store in original container.
Advice on storage compatability	Keep away from: Oxidizing agents. Food and feed.

7.3. Specific end use(s)

Specific use(s)	See section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Dipropylene Glycol Monomethyl Ether	CAS No.: 34590-94-8	Limit value (8 h) : 50 ppm **Exposure limit letter** Letter code: Sk Limit value (8 h) : 308 mg/m³ **Exposure limit letter** Letter code: Sk	

Control parameters comments	Explanation of the notations: H = Can be absorbed through the skin. References (laws/regulations): Norwegian regulation on exposure limits: FOR-2011-12-06-1358 Forskrift om tiltaks- og grenseverdier (sist endret gjennom FOR-2022-12-19-2350).

8.2. Exposure controls

Precautionary measures to prevent exposure

Instruction on measures to prevent exposure	Reference is made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
Technical measures to prevent exposure	Provide adequate ventilation. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment. A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipment's suitability and durability will depend on application.

Eye / face protection

Eye protection equipment	Description: Wear tight-fitting goggles or face shield. Reference to relevant standard: EN 166 (Personal eye-protection. Specifications).
Additional eye protection measures	Eye wash facilities shall be available at the work place. Either a fixed eye wash facility connected to the drinking water (preferably warm water) or a portable disposable unit.

Hand protection

Suitable materials	Nitrile. Neoprene.
Breakthrough time	Value: > 8 hour(s)
Thickness of glove material	Comments: No specific information from the manufacturer.
Hand protection equipment	Description: Use chemical resistant gloves. Glove thickness must be chosen in consultation with the glove supplier. The gloves abilities may vary among the

	different glove manufacturers. Reference to relevant standard: EN ISO 374 (Protective gloves against chemicals and micro-organisms). EN 420 (Protective gloves - General requirements and test methods).
Additional hand protection measures	Replace gloves if signs of wear and tear. Gloves must only be worn on clean, dry hands.

Skin protection

Recommended protective clothing	Description: Wear appropriate protective clothing to protect against skin contact.
Additional skin protection measures	Emergency shower should be available at the workplace.

Respiratory protection

Recommended respiratory protection	Description: In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A/P2). Reference to relevant standard: EN 14387 (Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking). EN 143 (Respiratory protective devices - Particle filters - Requirements, testing, marking).

Appropriate environmental exposure control

Environmental exposure controls	Do not allow to enter into sewer, water system or soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Fluid
Colour	Yellowish.
Odour	Ether.
Odour limit	Comments: Not specified by the manufacturer.
pH	Status: In aqueous solution Value: 5 - 7
Melting point / melting range	Comments: Not specified by the manufacturer.
Boiling point / boiling range	Value: > 120 °C
Flash point	Value: > 130 °C Method: Closed cup
Flammability	May be combustible at high temperature.
Explosion limit	Comments: Not specified by the manufacturer.
Vapour pressure	Comments: Not specified by the manufacturer.
Vapour density	Comments: Not specified by the manufacturer.
Particle characteristics	Comments: Not relevant for liquids.
Relative density	Value: 0,988

Solubility	Medium: Water Comments: Easily soluble.
Partition coefficient: n-octanol/ water	Comments: Not specified by the manufacturer.
Auto-ignition temperature	Comments: Not specified by the manufacturer.
Decomposition temperature	Comments: Not specified by the manufacturer.
Viscosity	Comments: Not specified by the manufacturer.
Explosive properties	Not specified by the manufacturer.
Oxidising properties	Not specified by the manufacturer.

9.2. Other information

9.2.2. Other safety characteristics

Comments	No further information is available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No data available.

10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Hazardous polymerization will not occur under normal conditions.

10.4. Conditions to avoid

Conditions to avoid	No data available.

10.5. Incompatible materials

Materials to avoid	Oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.

SECTION 11: Toxicological information

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

Acute toxicity	Effect tested: LD50 Route of exposure: Oral Value: 1378 mg/kg Species: Rat Comments: Applies to CAS-nr.: 68439-46-3.

Effect tested: LD50
Route of exposure: Dermal
Value: 10 ml/kg
Species: Rabbit
Comments: Applies to CAS-nr.: 34590-94-8.

Effect tested: LD50
Route of exposure: Oral
Value: 5000 µg/kg
Species: Rat
Comments: Applies to CAS-nr.: 34590-94-8.

Other information regarding health hazards

Assessment of acute toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of skin corrosion / irritation, classification	Based on available data, the classification criteria are not met.
Assessment of eye damage or irritation, classification	Causes serious eye irritation.
Assessment of respiratory sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of skin sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of germ cell mutagenicity, classification	Based on available data, the classification criteria are not met.
Assessment of carcinogenicity, classification	Based on available data, the classification criteria are not met.
Assessment of reproductive toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - single exposure, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - repeated exposure, classification	Based on available data, the classification criteria are not met.
Assessment of aspiration hazard, classification	Based on available data, the classification criteria are not met.

Symptoms of exposure

In case of ingestion	Irritates the mouth, throat and digestive system.
In case of skin contact	Parts of the chemical might be absorbed through the skin.
In case of inhalation	No specific information from the manufacturer.
In case of eye contact	Causes serious eye irritation. Irritation, burning, lachrymation, blurred vision after liquid splash.

11.2 Other information

Endocrine disruption	None of the substances listed in section 3.2 is listed on ECHA's Endocrine

	disruptor assessment list.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, fish	Toxicity type: Acute Value: 8,5 mg/l Effect dose concentration: LC50 Test duration: 96 hour(s) Species: Pimephales promelas Comments: Applies to CAS-nr.: 68439-46-3. Toxicity type: Acute Value: > 1000 mg/l Effect dose concentration: LC50 Test duration: 96 hour(s) Comments: Applies to CAS-nr.: 34590-94-8.
Aquatic toxicity, algae	Toxicity type: Acute Value: > 969 mg/l Effect dose concentration: EC50 Test duration: 72 hour(s) Comments: Applies to CAS-nr.: 34590-94-8. Toxicity type: Acute Value: 1930 mg/l Effect dose concentration: EC50 Test duration: 48 hour(s) Comments: Applies to CAS-nr.: 34590-94-8.
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 2686 µg/l Effect dose concentration: EC50 Test duration: 48 hour(s) Species: Daphnia magna Comments: Applies to CAS-nr.: 68439-46-3. Toxicity type: Acute Value: 5,36 mg/l Effect dose concentration: EC50 Test duration: 48 hour(s) Species: Ceriodaphnia dubia Comments: Applies to CAS-nr.: 68439-46-3.
Ecotoxicity	The chemical is not classified as harmful to the environment.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	There are no data available on the chemical itself.

12.3. Bioaccumulative potential

Bioaccumulation, evaluation	Information on bioaccumulation is not available for the chemical.
Bioaccumulation, comments	Log Pow = 0,004. Low potential for bioaccumulation. Applies to CAS-nr.:

34590-94-8.

12.4. Mobility in soil

Mobility	Soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Not available.

12.6. Endocrine disrupting properties

Endocrine disrupting properties	None of the substances listed in section 3.2 is listed on ECHA's Endocrine disruptor assessment list.

12.7. Other adverse effects

Additional ecological information	Do not allow to enter into sewer, water system or soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Disposed of as hazardous waste by approved contractor. The waste code (EWC-Code) is intented as a guide. The code must be chosen by the user, if the use differs from the one mentioned below.
EWC waste code	EWC waste code: 070604 other organicsolvents, washing liquids and mother liquors Classified as hazardous waste: Yes EWC waste code: 165073 kjemikalieblandinger u/halogen og tungmetaller Classified as hazardous waste: Yes
NORSAS	7152 Non-halogenated organic wastes.
Other information	Do not empty into drains.

SECTION 14: Transport information

Dangerous goods	No

14.1. UN number

Comments	Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

14.2. UN proper shipping name

Comments	Not relevant.

14.3. Transport hazard class(es)

Comments	Not relevant.

14.4. Packing group

Comments	Not relevant.

14.5. Environmental hazards

IMDG Marine pollutant	No

14.6. Special precautions for user

Special safety precautions for user	Not relevant.

14.7. Maritime transport in bulk according to IMO instruments

Ship type required	Data lacking.

SECTION 15: Regulatory information

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

References (laws/regulations)	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments. Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments. Norwegian regulation on waste, 01.06.2004 no. 930, with later amendments. Norwegian regulation on dangerous goods: FOR 2009-04-01 nr 384: Forskrift om landtransport av farlig gods med senere endringer, Direktoratet for samfunnssikkerhet og beredskap. Norwegian regulation on declaration: FOR-2015-05-19-541, 01.06.2015 with later amendments.
Declaration No.	603242

15.2. Chemical safety assessment

Chemical safety assessment performed	No

SECTION 16: Other information

Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
List of relevant H-phrases (Section 2 and 3)	H319 Causes serious eye irritation.
CLP classification, comments	Calculation method.
Key literature references and sources for data	Suppliers Safety data sheet dated: 07.01.2020.
Abbreviations and acronyms used	ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road EWC: European Waste Code (a code from the EU's common classification system for waste) EC50: The effective concentration of substance that causes 50% of the

	maximum response IATA: The International Air Transport Association ICAO: The International Civil Aviation Organisation IMDG: The International Maritime Dangerous Goods Code IMO: International Maritime Organization LC50: Median concentration lethal to 50% of a test population. LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%. Log Pow: Partition coefficient: n-octanol / water PBT: Persistent, Bioaccumulative and Toxic RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail UN: United Nations vPvB: very Persistent and very Bioaccumulative
Information added, deleted or revised	Sections being revised since previous version: 1-12, 15-16
Checking quality of information	This SDS is quality controlled by Kiwa Kompetanse AS in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2015.
Version	8
Prepared by	Kiwa Kompetanse, Norway by SR