



SAFETY DATA SHEET

NOM-018-STPS-2015

Issuing Date 04/15/2019

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Revision Number: 2

1. Identification

Product Identification

Product Name: QUAKERCLEAN® 680 VDA
Product code: 016084-02

Other means of identification

Common Name: None
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use: Cleaner/Corrosion Inhibitor
Uses advised against For industrial use only

Supplier:

TECNIQUIMIA MEXICANA S.A.. de C.V.
Beta 8023 cruz con Platino
Colonia Industrial Mitras
García, N.L. CP 66000
México
+52-81-8158-7100

Emergency phone number:

NOTIFY THE NATIONAL EMERGENCY SYSTEM AND AUTHORITIES
SPECIFIC TO HAZARDOUS MATERIALS, Federal Highway Police, Fire,
Red Cross.

Emergency telephones 24 Hrs / 365 days:

SETIQ: 01 800 00 21 400

CENACOM: 01 800 00 41 300

CHEMTREC - 24 hour Transportation Emergencies: US/Canada -
1-800-424-9300 or 1-703-527-3887 (English); Mexico -
01-800-681-9531 (in-country only, Spanish)

2: Hazard identification

Classification of the hazardous chemical substance or mixture via the Globally Harmonized System

Acute toxicity - Oral	Category 5 - (H303)
Skin corrosion/irritation	Category 1 Sub-category B - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)

Label Elements

DANGER

Hazard statements

H303 - May be harmful if swallowed

H314 - Causes severe skin burns and eye damage



Precautionary Statements - Prevention

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P310 - Immediately call a POISON CENTER or doctor

P321 - Specific treatment (see First Aid)

Eyes

P310 - Immediately call a POISON CENTER or doctor

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Skin

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

P363 - Wash contaminated clothing before reuse

Inhalation

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor

Ingestion

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

P405 - Store locked up

Precautionary Statements - Disposal

P501 - Dispose of contents/container to an approved waste disposal plant

Other Information

Does not apply

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical Name	CAS No.	UN nr.	Weight-%
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Monoethanolamine	141-43-5	UN2491	10-15%
Amine Salt	Proprietary	N.A.	5-10%
Potassium Salt	Proprietary	N.A.	1-5%
Potassium Salt	Proprietary	N.A.	1-5%
Amine polymer	Proprietary	UN3082	<1%

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before reuse. Wash off with soap and water. If symptoms persist, call a physician.
Inhalation	Remove to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	Wash off immediately with soap and plenty of water. For severe burns, immediate medical attention is required.
Ingestion	Do not induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).

Principle symptoms and important affects, acute and chronic

Symptoms	Burning sensation. Itching. Rashes. Redness. Burns. May cause redness and tearing of the eyes. Causes serious eye damage.
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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5. Fire-fighting measures

Extinguishing media	Carbon dioxide (CO2). Dry chemical. Foam. Water spray or fog. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	CAUTION: Use of water spray when fighting fire may be inefficient. Do not use straight streams.
Specific hazards arising from the chemical	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.
Explosion data	

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

Special protective actions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for Safe Handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

Safe storage temperature: 40 - 110 °F

Incompatible Materials Acids. Bases. Oxidizing agent.

8. Exposure controls/personal protection

CONTROL PARAMETERS

Chemical Name	Mexico - Instruction No. 10 - TWAs	Mexico - Instruction No. 10 - STELs	Mexico - Instruction No. 10 - Ceiling Limit
Monoethanolamine 141-43-5	3 ppm TWA	6 ppm STEL 15 mg/m ³ STEL	N.D.
Amine Salt	N.D.	N.D.	N.D.
Potassium Salt	N.D.	N.D.	N.D.
Potassium Salt	N.D.	N.D.	N.D.
Amine polymer	N.D.	N.D.	N.D.

Appropriate Engineering Controls

Engineering controls Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). If splashes are likely to occur: Face protection shield.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.



9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear Light amber
Odor	Amine
Odor Threshold	No information available

pH concentrate:	10.6
pH Dilution	No information available
Melting/freezing point	No information available
Boiling Point/Range	> 100 °C
Flash Point	> 100 °C
Method	Cleveland Open Cup (COC)
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limits in Air	
upper flammability limit	No information available
lower flammability limit	No information available
Volatiles (% by volume) :	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity (g/cc, 15 °C)	1.067
Density @ 25 ° C. (g/cc):	No information available
Water Solubility	Soluble in water
Solubility in other solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition Temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Molecular Weight	No information available
VOC Content Product (lb/gal)	0.64 lb/gal (EPA Method 24 @110C/1hr); 0.059 lb/gal (EPA Method 24 @140F/1hr)

10. Stability and reactivity

Reactivity	No information available.
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.

Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to Avoid	Exposure to air or moisture over prolonged periods.
Incompatible Materials	Acids. Bases. Oxidizing agent.
Hazardous Decomposition Products	None under normal use.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. (based on components). Causes burns. Contact with moist mucous membranes of the respiratory system can cause burns and lung damage. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Eye contact	Specific test data for the substance or mixture is not available. (based on components). Causes burns. Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. (based on components). Causes skin irritation. Causes burns.
Ingestion	Specific test data for the substance or mixture is not available. (based on components). Causes burns. Can burn mouth, throat, and stomach. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Burning sensation. Itching. Rashes. Redness. Burns. May cause redness and tearing of the eyes. Causes serious eye damage.
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Numerical measures of toxicity

No information available

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	4,886.00 mg/kg
ATEmix (dermal)	10,748.00 mg/kg
ATEmix (inhalation-dust/mist)	14.70 mg/L

Unknown acute toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity
 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Monoethanolamine 141-43-5	= 1720 mg/kg (Rat) Oral LD50 Rat 1720 mg/kg (Source: NLM_CIP)	= 1 mL/kg (Rabbit) = 1000 mg/kg (Rabbit) Dermal LD50 Rabbit 1000 mg/kg (Source: JAPAN_GHS)	N. D.

Amine Salt	N. D.	N. D.	N. D.
Potassium Salt	N. D.	N. D.	N. D.
Potassium Salt	N. D.	N. D.	N. D.
Amine polymer	N. D.	N. D.	N. D.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. May cause skin irritation.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as carcinogenic.

Chemical Name	IARC Carcinogens	NTP	Mexico - NOM-010-STPS-2014 Tabel I.1
Monoethanolamine 141-43-5	Not listed	Not listed	Not Listed
Amine Salt	Not listed	Not listed	Not Listed
Potassium Salt	Not listed	Not listed	Not Listed
Potassium Salt	Not listed	Not listed	Not Listed
Amine polymer	Not listed	Not listed	Not Listed

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

Additional information on toxicological effects

WARNING! Do not add nitrites to this metalworking fluid under penalty of federal law. Addition of nitrites leads to formation of a substance known to cause cancer. This product is designed to be used without nitrites
This product contains monoethanolamine (MEA). Inhalation studies in animals have demonstrated the potential for liver and kidney effects. Repeated inhalation of highly irritating concentrations of MEA have been reported to result in possible effects upon the reproductive and nervous systems of animals. No signs or symptoms of chronic exposure to MEA have been reported in humans. The diluted concentration of MEA in this product is expected to mitigate the potential for chronic effects.

12. Ecological information

Ecotoxicity	Specific test data for the substance or mixture is not available.
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Chemical Name	Toxicity to Fish	Toxicity to Algae	Daphnia Magna (Water Flea)
Monoethanolamine	114 - 196: 96 h Oncorhynchus mykiss mg/L LC50 static 300 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 227: 96 h Pimephales promelas mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC50 static 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	15: 72 h Desmodesmus subspicatus mg/L EC50	65: 48 h Daphnia magna mg/L EC50
Amine Salt	100: 96 h Danio rerio mg/L LC50 semi-static	N. D.	N. D.
Potassium Salt	N. D.	N. D.	N. D.
Potassium Salt	N. D.	N. D.	N. D.
Amine polymer	N. D.	N. D.	N. D.

Persistence and Degradability No information available.

Bioaccumulation No information available.

Component Information

Chemical Name	Octanol/water partition coefficient
Monoethanolamine 141-43-5	-1.91
Amine Salt	N. D.
Potassium Salt	N. D.
Potassium Salt	N. D.
Amine polymer	N. D.

Mobility: No information available.

Ozone: No data available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with federal, state and local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers. Dispose of in accordance with federal, state and local regulations.

14. Transport information

Mexican Regulations for Ground Transport of Materials

Proper shipping name: Not regulated as hazardous for transportation.

IMDG/IMO:

Proper shipping name: Not regulated as hazardous for transportation.

IATA/ICAO:

Proper shipping name: Not regulated as hazardous for transportation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

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

Not applicable

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

16. Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
(NA) = Not Applicable, (ND) = Not Determined, (>) = Greater Than, (<) = Less Than			

Sources of key data used to compile the data sheet: Material safety data sheets of the ingredients.

Prepared by: Safety, Health and Environmental Department
Revision Date: 09/12/2019
Revision Number: 2
Reason for revision: New Logo.

Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.

Disclaimer:

The information provided is considered correct but is not exhaustive and should be only used a guide, which is based on current knowledge of the chemical substance or mixture, and apply to safety precautions appropriate for the product.

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. Tecniquimia Mexicana assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of Tecniquimia Mexicana .

End of Safety Data Sheet