

SAFETY DATA SHEET

ARQUAD PC SV-60 PG

Version 1

Revision Date 06/09/2014

Print Date 02/02/2015

US / Z8

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ARQUAD PC SV-60 PG

Product Use Description : Conditioners
Surfactant

Company : Akzo Nobel Surface Chemistry LLC
525 West Van Buren
Chicago IL 60607
USA

Telephone : +18009069977

Fax : +13125447188

E-mail address :

Emergency telephone : Chemtec: 800-424-9300 Canutec: 613-996-6666 Medical/Handling:
914-693-6946

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Color	colorless, light yellow
Odor	amine-like

GHS Classification

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

Acute aquatic toxicity : Category 1

GHS Label element

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.

Precautionary Statements : **Prevention:**

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P273 Avoid release to the environment.

P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response:

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

P310 Immediately call a POISON CENTER or doctor/physician.

P391 Collect spillage.

Potential Health Effects

Inhalation	: Inhalation of aerosols may cause irritation to mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.
Skin	: May be harmful in contact with skin. Causes skin irritation.
Eyes	: Causes serious eye damage.
Ingestion	: Harmful if swallowed. May cause irritation of the mucous membranes.
Aggravated Medical Condition	: None known.
Symptoms of Overexposure	: No information available.

Carcinogenicity:

IARC	: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
ACGIH	: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous ingredients**

Chemical Name	CAS-No.	Classification	Concentration [%]
Soyatrimethylammonium chloride	61790-41-8	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 M-Factor (Acute): 100	50 - 70
Propylene glycol	57-55-6		30 - 50

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

- General advice : Immediate medical attention is required.
Move out of dangerous area.
Show this material safety data sheet to the doctor in attendance.
- Inhalation : If breathed in, move person into fresh air.
Consult a physician after significant exposure.
- Skin contact : Take off contaminated clothing and shoes immediately.
Rinse immediately with plenty of water.
If skin irritation persists, call a physician.
- Eye contact : Rinse with plenty of water.
Get medical attention immediately. Continue to rinse during transport of patient.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

Notes to physician

- Symptoms : No information available.
- Risks : No information available.
- Treatment : No information available.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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Specific hazards during fire fighting / Specific hazards arising from the chemical	: Do not allow run-off from fire fighting to enter drains or water courses.
Combustion products	: Carbon oxides Nitrogen oxides (NOx) Halogenated compounds Hydrogen chloride
Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breathing apparatus.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

See also Section 9. Physical and chemical properties: Safety data

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	: Use personal protective equipment. Ensure adequate ventilation.
Environmental precautions	: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up / Methods for containment	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
Additional advice	: For personal protection see section 8.

7. HANDLING AND STORAGE

Handling

Advice on safe handling	: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Avoid contact with skin, eyes and clothing.
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Advice on protection against fire and explosion	: Normal measures for preventive fire protection.
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Storage

Requirements for storage areas and containers	: Keep container tightly closed in a dry and well-ventilated place.
Other data	: No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

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Ingredients with workplace control parameters

Ingredients	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Propylene glycol	57-55-6	TWA	10 mg/m3	2008-01-01	US WEEL	

STEL: Short term exposure limit

TWA: Time Weighted Average

Occupational exposure limits of decomposition products

Decomposition products	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Hydrogen chloride	7647-01-0, 7647-01-0	C	2 ppm	2007-01-01	ACGIH	
	Further information	:	Upper Respiratory Tract irritation A4: Not classifiable as a human carcinogen			
		C	5 ppm 7 mg/m3	2005-09-01	NIOSH REL	
	Further information	:	Often used in an aqueous solution.			
		C	5 ppm 7 mg/m3	2006-02-28	OSHA Z-1	
	Further information	:	(b): The value in mg/m3 is approximate. (C): Ceiling limit is to be determined from breathing-zone air samples.			
		C	5 ppm 7 mg/m3	1989-01-19	OSHA P0	

Engineering measures

Effective exhaust ventilation system

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Hand protection : Glove material: Neoprene

: Glove material: Nitrile rubber

Skin and body protection : Protective suit

Respiratory protection : In the case of vapor or aerosol formation use a respirator with an approved filter.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid

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Color	: colorless light yellow
Odor	: amine-like
Odor Threshold	: No data available

Safety data

pH	: 6 - 9 at 10 % solution
Melting point/freezing point	: 1 °C
Boiling point/boiling range	: > 100 °C
Flash point	: 104 °C Method: closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: not applicable
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Density	: 946 kg/m ³ at 25 °C
Relative density	: 0.95 at 25 °C
Water solubility	: soluble
Solubility in other solvents	: Soluble in alcohols.
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, dynamic	: 192 mPa.s at 25 °C
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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10. STABILITY AND REACTIVITY

Conditions to avoid	: None known.
Materials to avoid	: None known.
Hazardous decomposition products	: Halogenated compounds Hydrogen chloride
Thermal decomposition	: No data available
Reactivity	: Stable under normal conditions.
Chemical stability	: Stable under recommended storage conditions.
Hazardous reactions	: No dangerous reaction known under conditions of normal use.

11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

Toxicology Assessment

Further information : No further data available.

Test result

Acute oral toxicity : Acute toxicity estimate: 773.33 mg/kg
Method: Calculation method

Skin irritation : Species: rabbit
Result: Irritating to skin.
Read-across (Analogy)

Eye irritation : Species: rabbit
Result: Risk of serious damage to eyes.
Read-across (Analogy)

Carcinogenicity:

IARC : No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

TOXICOLOGY DATA FOR THE INGREDIENTS:

Test result

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Component: Soyatrimethylammonium chloride

Acute oral toxicity : LD50: 464 mg/kg
Species: rat
Read-across (Analogy)

Skin irritation : Species: rabbit
Result: Causes burns.

Component: Propylene glycol

Acute oral toxicity : LD50: 19,400 - 36,000 mg/kg
Species: rat
Literature data.

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

Ecotoxicology Assessment

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

Further information on ecology

Hazardous to the ozone layer

Regulation : 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

INGREDIENTS:

Test result

Component: Soyatrimethylammonium chloride

Ecotoxicity effects

Toxicity to fish : LC50: > 0.1 - 1 mg/l
Exposure time: 96 h
Species: Fish
Read-across (Analogy)

Toxicity to daphnia and other aquatic invertebrates : EC50: > 0.001 - 0.01 mg/l
Exposure time: 48 h
Species: Daphnia
Read-across (Analogy)

Toxicity to algae : IC50: > 0.01 - 0.1 mg/l
Exposure time: 72 h

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Species: alga
Read-across (Analogy)

M-Factor : 100

Elimination information (persistence and degradability)

Bioaccumulation : No data available

Mobility : No data available

Biodegradability : Result: Readily biodegradable.

Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available

Component: Propylene glycol

Ecotoxicity effects

Toxicity to fish : LC50: 46,500 - 54,900 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates : EC50: 34,400 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Literature data.

Toxicity to algae : IC50: 19,000 mg/l
Exposure time: 72 h
Species: alga

Elimination information (persistence and degradability)

Bioaccumulation : Bioconcentration factor (BCF): < 1
Bioaccumulation is unlikely.

Mobility : No data available

Biodegradability : Result: Readily biodegradable.

Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available

13. DISPOSAL CONSIDERATIONS

Product : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

: The product should not be allowed to enter drains, water courses or the soil.

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Do not contaminate ponds, waterways or ditches with chemical or used container.
Hazardous waste
Dispose of contents/container in accordance with local regulation.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.

14. TRANSPORT INFORMATION

International regulation

IATA-DGR

UN/ID No. : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Quaternary alkyl ammonium chloride)
Class : 9
Packing group : III
Labels : 9
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Quaternary alkyl ammonium chloride)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes
(Quaternary alkyl ammonium chloride)

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

TDG

Not regulated as a dangerous good

NOM-002-SCT

Not regulated as a dangerous good

15. REGULATORY INFORMATION

Notification status

CH INV : YES. The mixture contains substances listed on the Swiss Inventory
TSCA : YES. All chemical substances in this product are either listed on the
TSCA Inventory or in compliance with a TSCA Inventory exemption.
DSL : YES. All components of this product are on the Canadian DSL.

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AICS	: YES. On the inventory, or in compliance with the inventory
NZIoC	: YES. On the inventory, or in compliance with the inventory
ENCS	: NO. Not in compliance with the inventory
ISHL	: NO. Not in compliance with the inventory
KECI	: YES. On the inventory, or in compliance with the inventory
PICCS	: NO. Not in compliance with the inventory
IECSC	: YES. On the inventory, or in compliance with the inventory

For explanation of abbreviations, see section 16.

OSHA Hazards : Moderate skin irritant, Severe eye irritant, Toxic by ingestion, Corrosive to respiratory system

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

Propylene glycol	57-55-6
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Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Full text of H-Statements

H302 : Harmful if swallowed.

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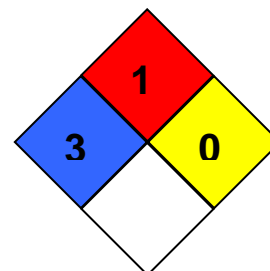
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H314 : Causes severe skin burns and eye damage.
H318 : Causes serious eye damage.
H400 : Very toxic to aquatic life.

Further information

HMIS Classification : Health Hazard: 3
Flammability: 1
Physical hazards: 0

NFPA Classification : Health Hazard: 3
Fire Hazard: 1
Reactivity Hazard: 0



Notification status explanation

REACH	1907/2006 (EU)
CH INV	Switzerland. New notified substances and declared preparations
TSCA	United States TSCA Inventory
DSL	Canadian Domestic Substances List (DSL)
AICS	Australia Inventory of Chemical Substances (AICS)
NZIoC	New Zealand. Inventory of Chemical Substances
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL - Inventory of Chemical Substances (METI)
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC)

Further information

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The information in this material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the context of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates

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only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.