



Safety Data Sheet

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PTG-QS425
Rev. Date 3/23/2020

1 – PRODUCT IDENTIFICATION

PRODUCT NAME:PTG-QS425
CHEMICAL NAME/SYNONYMS:Alkyl dimethylbenzyl ammonium chloride
CHEMICAL FAMILY:Quaternary ammonium compounds
CAS NUMBER:68424-85-1
COMPANY:
ADDRESS:
EMERGENCY PHONE:For Chemical Emergency:
Spill, Leak, Fire, Exposure or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: 1-703-527-3887
(collect calls accepted)

2 – HAZARDS IDENTIFICATION

GHS Classification and Label Elements:

Health	Physical	Environmental
Serious eye damage/eye irritation (1) Skin corrosion/irritation (1B) Acute toxicity-oral (4)	Flammable liquids (3)	Aquatic toxicity, acute (2)

Hazard Statements:

H226: Flammable liquid
H302: Harmful if swallowed
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage
H401: toxic to aquatic life

Precautionary Statements:

Prevention

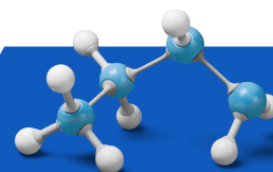
P210: Keep away from heat/sparks/open flames/hot surfaces
P240: Ground/bond container and receiving equipment
P241: Use explosion-proof electrical/ventilating/lighting equipment
P242: Use only non-sparking tools
P243: Take precautionary measures against static discharge
P264: Wash thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P280: Wear eye protection

Response

P302+P361+P352: IF ON SKIN: 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.
P310: Immediately call a poison center/doctor
P363: Wash contaminated clothing before reuse

Storage/Disposal

P233: Keep container tightly closed
P501: Dispose of contents and container to an approved waste disposal plant



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Signal Word: Danger



3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS number(s)	GHS Classification	Concentration, %
Quaternary ammonium compounds, benzyl-C12-16 alkylmethyl, chlorides	68424-85-1	Serious eye damage/eye irritation: Category 1, Skin corrosion/irritation: Category 1B, Acute toxicity (oral): Category 4, Aquatic toxicity (acute): Category 3; H301, H314, H318, H401	$\geq 48 - \leq 52$
Ethanol	64-17-5	Flammable liquids: Category 2; Serious eye damage/eye irritation: Category 2B; H225, H320, H336	$\geq 5 - \leq 10$
Other components		Not classified	Balance

4 – FIRST-AID MEASURES

Description of first-aid measures

General advice: Show this material safety data sheet to medical personnel. Do not leave affected person unattended. Isolate exposed apparel for laundry before re-use.

Eye contact: Rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention if irritation develops or persists.

Skin contact: Wash affected areas with plenty of water. Seek medical attention if irritation develops or persists.

Ingestion: Rinse mouth with water.

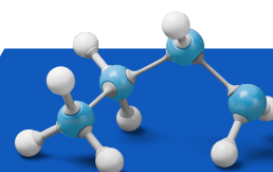
Inhalation: Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Risks: The most important known symptoms and effects are described in the labeling (section 2.2) and/or in section 11. Corrosive effects. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. Prolonged or repeated skin contact may aggravate existing skin conditions. Inhalation of mists may aggravate existing chronic respiratory conditions such as asthma, emphysema or bronchitis.

Indication of any immediate medical attention and special treatment needed

Note to physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.





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5 – FIRE-FIGHTING MEASURES

Flash Point and Method:	<100°F (40°C) SetaFlash Closed Cup
Extinguishing media	
Suitable extinguishing media:	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO ₂)
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the substance or mixture	
Special hazards during fire fighting:	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Container may rupture on heating
On combustion or on thermal decomposition:	May include carbon oxides
Advice for firefighters	
Special protective equipment for firefighters:	As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear.
Specific firefighting methods:	No special methods required. Move containers from area if it can be done without risk. Cool fire-exposed containers with water from side. Contain the extinguishing fluids by diking.

6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Spill area may be slippery. Wear appropriate protective equipment (See Section 8).

Environmental precautions

Avoid contact of spilled material and runoff with soil and surface waterways

Methods and material for containment and cleaning up

Recovery: Stop leak if safe to do so. Absorb spills with vermiculite, fuller's earth, or sand. Shovel up and place in a non-metal waste container for disposal. Dike large spills with soil or sandbags to contain it and prevent its spread. Keep in suitable, properly labeled, closed containers for disposal.

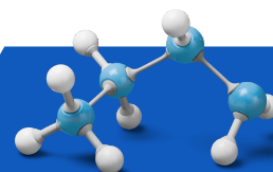
Decontamination/cleaning: Wash non-recoverable remainder with large amounts of water. Clean contaminated surfaces thoroughly. Recover the cleaning water for subsequent disposal.

Disposal: Dispose of in accordance with local regulations

Additional advice: Spill area may be slippery

Reference to other sections

No information available





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7 – HANDLING and STORAGE

Precautions for safe handling

Technical measures: Does not require any specific or particular measures

Advice on safe handling and usage: Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Avoid release to the environment. Wear appropriate protective equipment. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical measures for storage: Does not require any specific or particular measures

Storage conditions

Recommended: Keep container tightly closed. Keep away from heat, and sunlight. Storage temperature range: 5-30°C. If material freezes, gently thaw prior to use. Mild agitation may be required.

Incompatible products: Hazardous reactions may occur on contact with certain chemicals. Refer to the list of incompatible materials section 10: "Incompatible materials"

Specific end use(s)

No information available

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Introductory remarks:

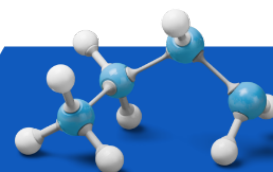
These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers

Control parameters

Components with workplace control parameters

Components	Value type	Value	Basis
Ethanol CAS#64-17-5	TWA	200 ppm	ACGIH Threshold Limit Values (TLV)
	STEL	400 ppm	
	TWA	400 ppm 980 mg/m3	Occupational Exposure Limits (OSHA)
	TWA ST	400 ppm 980 mg/m3 500 ppm 1,225 mg/m3	NIOSH Recommended Exposure Limits
Central Nervous System impairment. Upper Respiratory Tract irritation. Eye irritation. Substances for which there is a Biological Exposure Index or Indices (see section below). Not classifiable as a human carcinogen.			





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Exposure controls

Control measures

Engineering measures: In applications where the product will be exposed to elevated temperatures, use local ventilation to remove potential decomposition products.

Personal protective equipment

Respiratory protection: In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.

Hand protection: Wear long chemical resistant gloves. Observe instructions regarding permeability and breakthrough time provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection: Wear safety glasses with side shields or goggles. Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Skin and body protection: Wear footwear protecting against chemicals, and impervious clothing. Choose body protection according to the amount and concentration of the substances in the workplace.

Hygiene measures: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Protective measures: Ensure that eyewash stations and safety showers are close to the workstation location, and that emergency equipment is immediately accessible with instructions for use.

The protective equipment must be selected in accordance with current local standards and in following proper use instructions from the supplier of the protective equipment.

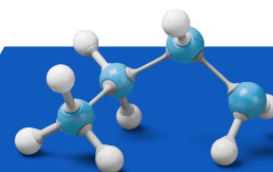
Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

9 – PHYSICAL / CHEMICAL PROPERTIES

Physical and chemical properties listed represent typical properties and should not be considered product specifications. Refer to product Certificate of Analysis for Product Specifications or contact The Price Tech Group for additional information.

Information on basic physical and chemical properties

Appearance:	Amber liquid
Odor:	Mild alcoholic
Odor Threshold:	No data available
pH (5% in water):	5-9
Freezing point:	No information available
Melting point/range:	No information available





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Boiling point/boiling range:	No information available
Flash point:	<100°F (40°C) SetaFlash Closed Cup
Evaporation rate:	No information available
Flammability (solid, gas):	No information available
Flammability/Explosive limit:	No information available
Auto-ignition temperature:	No information available
Vapor pressure:	No information available
Vapor density:	No information available
Density:	0.93 g/ml
Solubility:	Water solubility: soluble
Solubility in other solvents:	Alcohols: soluble
Partition Coef.: n-octanol/water:	Not applicable Surface-Active
Thermal decomposition:	No information available
Viscosity:	No information available
Explosive properties:	No information available
Oxidizing properties:	Not considered as oxidizing, Structure-activity relationship (SAR)

Other information

Ionic character:	Cationic
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10 – STABILITY and REACTIVITY

Reactivity:	No information available
Chemical stability:	Stable and non-reactive under normal conditions of use, storage and transport
Possibility of hazardous reactions:	No information available
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point.
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	Oxides of carbon

11 – TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Acute oral:	LD ₅₀ Rat 430 mg/kg
Acute dermal:	LD ₅₀ Rat 3560 mg/kg
Acute inhalation:	No information available
Acute toxicity (other):	No information available

Skin corrosion/irritation

Skin irritation:	Causes skin burns
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Serious eye damage/eye irritation

Eye irritation:	Causes serious eye damage
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Respiratory or skin sensitization

Sensitization:	Not classified as sensitizing by skin contact
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Mutagenicity

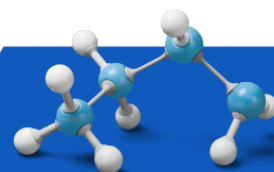
Genotoxicity in vitro:	No information available
Genotoxicity in vivo:	No information available

Carcinogenicity

Carcinogenicity:	This product does not contain any ingredient designated as probable or suspected human carcinogens by IARC, ACGIH
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Toxicity for reproduction and development

Toxicity to reproduction/fertility:	No information available
Developmental toxicity/teratogenicity:	No information available





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Specific Target Organ Toxicity (STOT)

STOT-single exposure: No information available

STOT-repeated exposure: No information available

Aspiration toxicity

Aspiration toxicity: No information available

12 – ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: Invertebrate (*Daphnia magna*): NOEL 0.0042 mg/L
Fish (bluegill *Lepomis macrochirus*): LC₅₀ 5.7 mg/L, 96hrs
Category 2 Acute aquatic toxicity: Toxic to aquatic life

Persistence and degradability

Biodegradation: No information available

Bioaccumulative potential

Partition Coef.: n-octanol/water: No bioaccumulation is to be expected (log Pow≤4)

Bioconcentration factor (BCF): No information available

Mobility in soil

Known distribution to environmental compartments: No information available

Results of PBT and vPvB assessment

No information available

Other adverse effects

Environmental assessment: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

13 – DISPOSAL CONSIDERATIONS

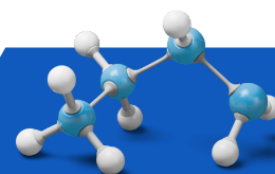
Waste treatment methods

RCRA Waste Code: Not regulated under RCRA 40CFR261
Product disposal: Observe all applicable federal, state, and local regulations
Packaging: Remove all residue when emptying

14 – TRANSPORTATION INFORMATION

DOT Hazard Classification:

UN number: UN2920
UN proper shipping name: Corrosive liquids, Flammable, n.o.s. (Quaternary ammonium compounds, Ethanol)
Transport hazard class(es)
Class: 3
Label(s): 3
Packing group: III





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15 - REGULATIONS

Contents of this SDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200
Safety, health and environmental regulations/legislation specific for the substance or mixture

Notification status:

Country	Regulatory list	Notification
USA	TSCA	Listed or in compliance with the requirements the inventory
	FIFRA	Inert ingredient
Canada	DSL	Listed or in compliance with the requirements the inventory
EU	EINECS	Listed or in compliance with the requirements the inventory; 263-087-6
Australia	AICS	Listed or in compliance with the requirements the inventory
China	IECSC	Listed or in compliance with the requirements the inventory
Korea	ECL	Listed or in compliance with the requirements the inventory; KE-30024
New Zealand	NZIoC	Listed or in compliance with the requirements the inventory
Philippines	PICCS	Listed or in compliance with the requirements the inventory

OSHA Hazard Communication Standard (26 CFR 1910.1200): Hazardous

CERCLA (RQ)

Ingredient(s)	CAS#	Weight	CERCLA RQ	Section 302 TPQ
Not listed				

SARA/EPCRA Extremely Hazardous Substances (302/304/313)

Ingredient(s)	CAS#	Weight	RQ	TPQ
Not listed				

CAA (301/307/311)

Ingredient(s)	CAS#	Weight	RQ
Propan-2-ol	67-63-0	≥10-≤14	

CWA (301/307/311)

Ingredient(s)	CAS#	Weight	RQ
Not listed			

SARA Hazard Categories (40 CFR 370)

Acute	Chronic	Fire	Pressure	Reactivity
Yes	No	Yes	No	No

State regulations

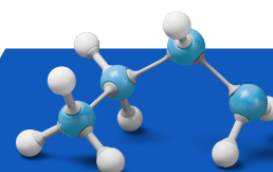
California Prop 65 Components. Carcinogens & Reproductive Toxicity (CRT):
Not listed

Other regulations

WHMIS Classification

This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR

Classification: Toxic material causing other toxic effects





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16 – OTHER INFORMATION

NFPA-Classification		HMIS-Classification	
Health	2 moderate	Health	2 moderate
Flammability	3 high	Flammability	3 high
Instability or Reactivity	0 insignificant	Reactivity	0 insignificant
		HMIS PPE	B
		B=Safety glasses, Gloves	

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