

SAFETY DATA SHEET

PDC-1200

SECTION 1 - IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

DISTRIBUTED BY: Crown Products & Services, Inc. 319 S. Gillette Ave. Suite 303 Gillette, WY 82716 307-696-8175 PRODUCT NAME: PDC-1200 TYPE OF PRODUCT: Mixture RECOMMENDED USE: Processing aid for industrial applications. SECTION II - HAZARDS IDENTIFICATION CLASSIFICATION: Skin Irritant Eye Damage SIGNAL WORD: Danger HAZARD STATEMENT(S): Causes skin irritation Causes serious eye damage
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Causes serious eye damage
Pictograms
PG
Skin Irritant / Serious Eye Damage
PRECAUTIONARY STATEMENT(S):
Prevention:Wear protective gloves/ eye protection/ face protectionWash hands and exposed skin thoroughly after handling.
Response:If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a Poison Control or Doctor, Physician. If on skin, wash with plenty of soap and water. If skin irritation persists, get medical advice/attention.
Storage: None
Disposal: None
OTHER HAZARDS: None



SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURES

Hazardous Components	WT %	CAS #
Alkylphenol ethoxylates	< 20%	Confidential
Fatty alcohols alkoxylated	< 20%	Confidential
D-Limonene	< 1%	5989-27-5
Fatty quaternary ammonium salt	< 1%	Confidential

SECTION IV - FIRST AID MEASURES

INHALATION:	If inhaled, immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
SKIN CONTACT:	Wash off immediately with plenty of water. Take off all contaminated cloth- ing immediately. Get medical attention if irritation develops and persists.
EYE CONTACT:	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
INGESTION:	Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE/DELAYED:	Risk of serious damage to eyes. Contact causes skin irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
	SECTION V - FIREFIGHTING MEASURES
EXTINGUISHING MEDIA:	Water spray, Dry powder, Foam or Carbon dioxide. Do not use high volume water jet it will spread fire.
SPECIAL HAZARDS:	Thermal decomposition may produce: nitrogen oxides (NOx), carbon oxides (COx). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.
PROTECTIVE MEASURES:	Wear self contained breathing apparatus for fire fighting if necessary.
OTHER INFORMATION:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguish- ing water must be disposed of in accordance with local regulations.



SECTION VI - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Avoid contact with skin and eyes. Use personal protective equipment. Safety glasses and neoprene gloves should be worn especially if frequent or prolonged contact is expected.
ENVIRONMENTAL PRECAUTIONS:	As with all chemical products, do not flush into surface water.
SPILL AND LEAK PROCEDURES:	Keep people away from spill/leak. Prevent further leakage or spillage if safe to do so. For small spills do not flush with water, wipe up with absorbant materials. Sweep up and shovel into suitable containers for disposal. For large spills, do not flush with water. Soak up with inert absorbent material. Shovel into suitable container for disposal. After cleaning, flush away traces with water.
	SECTION VII - HANDLING AND STORAGE
HANDLING:	Avoid contact with skin and eyes. Use personal protective equipment.
STORAGE:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Incompatible with oxidiz- ing agents.
SECTION V	III - EXPOSURE CONTROL/PERSONAL PROTECTION
VENTILATION:	Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists. Ensure adequate ventilation, especially in confined areas.
EYE PROTECTION:	Safety glasses with side-shields. Tightly fitting safety goggles.
SKIN/HAND PROTECTION:	Wear appropiate clothing and/or chemical apron and rubber footwear where skin contact is possible. Impervious gloves. Be aware that liquid may permeate gloves, frequent change is advised. Suitable gloves can be recommended by the glove supplier.
RESPIRATORY PROTECTION:	No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.
ADDITIONAL ADVICE:	Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.
ENVIRONMENTAL EXPOSURE:	Do not allow uncontrolled discharge of product into the environment.



SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Clear to slightly yellow liquid
Mild Citrus
Not determined
Not determined
Not determined
> 100°C
> 100°C
< 1 (ethyl ether = 1)
Not applicable
: Not expected to create explosive atmospheres.
Not determined
Not determined
1.0 - 1.1
Completely miscible
Not applicable
Not determined
Not determined
Not determined
Not expected to be explosive based on the chemical structure.
Not expected to be explosive based on the chemical structure.

SECTION X - STABILITY AND REACTIVITY

REACTIVITY:	Stable at normal conditions.
CHEMICAL STABILITY:	Stable at normal ambient temperature and pressure.
POSSIBILITY OF HAZARDOUS REACTIONS:	None known
CONDITIONS TO AVOID:	Keep away from heat and sources of ignition.
CHEMICAL INCOMPATIBILITY:	Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition may produce: nitrogen oxides (NOx), carbon oxides (COx), hydrogen cyanide (hydrocyanic acid).



SECTION XI - TOXICOLOGICAL INFORMATION				
ACUTE ORAL TOXICITY:	LD50/oral/rat = 3000 - 5000 mg/kg (Estimated)			
ACUTE DERMAL TOXICITY:	LD50/dermal/rabbit = > 2000 mg/kg			
ACUTE INHALATION TOXICITY:	The product is not expected to be toxic by inhalation.			
SKIN CORROSION/IRRITATION:	Irritating to skin.			
SERIOUS EYE DAMAGE/EYE IRRITATION:	Risk of serious damage to eyes.			
RESPIRATORY/SKIN SENSITISATION:	The product contains a small amount of sensitising substances which may provoke an allergic reaction among sensitive indiv- iduals in contact with skin.			
MUTAGENICITY:	Based on available data, product is not expected to be mutagenic.			
CARCINOGENICITY:	Based on available data, product is not expected to be carcinogenic.			
REPRODUCTIVE TOXICITY:	Based on available data, product is not expected to be toxic for reproduction.			
STOT - SINGLE EXPOSURE:	No known effects			
STOT - REPEATED EXPOSURE:	No known effects			
ASPIRATION HAZARD:	No hazards resulting from the material as supplied.			

Relevant information on the hazardous components:

Component	Acute Oral	Acute Dermal	Acute Inhalation
Alkylphenol ethoxylates	960-3980 mg/kg	2000-2991 mg/kg	1.15 mg/L
Fatty alcohols alkoxylated	1800 mg/kg	> 2000 mg/kg	Not expected to be toxic
D-Limonene	> 2000 mg/kg	> 5000 mg/kg	Not expected to be toxic
Fatty quaternary ammonium salt	300-2000 mg/kg	Not determined	Not determined

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic life.

C	omponents	Species	Test Results	
Acute-Toxicity to Fish				
Fish	LC50	Danio rerio	96 hours = 1 - 10 mg/L (Estimated)	
Crustacea	EC50	Daphnia	48 hours = 5 - 20 mg/L. (Estimated)	
Algae	IC50	Algae	72 hours = 7 - 70 mg/L (Estimated)	
Chronic-Toxicity to Fish and Invertebrates				

Harmful, may cause long-term adverse effects in the aquatic environment.

*Estimates for product may be based on additional component data not shown.

Toxicity to microorganisms:	No data available
Effects on terrestrial organisms:	No data available
Sediment toxicity:	No data available



SECTION XII - ECOLOGICAL INFORMATION (continued)

HAZARDOUS COMPONENTS TESTED:

Co	mponent	Species	Test Results
Acute-Toxicity: Alkylphenol ethoxylates			
Fish	LC50	Pimephales promelas	96 hours = 3.8 - 6.2 mg/L
Crustacea	EC50	Daphnia magna	48 hours = 9.3 - 21.4 mg/L
Algae	IC50	Algae	Not determined
Chronic-Toxicity: Alkylphenol ethoxylates			
Fish: No data available			
Invertebrates: No data available			

*Estimates for product may be based on additional component data not shown.

Toxicity to microorganisms: Effects on terrestrial organisms: Sediment toxicity: EC50/activated sludge/16 hours > 1000 mg/L No data available No data available

C	Component	Species	Test Results
Acute-Toxicity: Fatty alcohols alkoxylated			
Fish	LC50	Pimephales promelas	96 hours = 1 - 10 mg/L
Crustacea	EC50	Daphnia magna	48 hours = 1 - 10 mg/L
Algae	IC50	Algae	96 hours = 1 - 10 mg/L
Chronic-Toxicity: Fatty alcohols alkoxylated			
Fish: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment			
Invertebrates: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment			

*Estimates for product may be based on additional component data not shown.

Toxicity to microorganisms: Effects on terrestrial organisms: Sediment toxicity: No data available No data available No data available

Component	Species	Test Results	
Acute-Toxicity: D-Limonene			
Fish LC50	Pimephales promelas	96 hours = 0.72 mg/L	
Crustacea EC50	Daphnia magna	48 hours = 0.36 mg/L.	
Algae IC50	Desmodesmus subspicatus	72 hours = 8 mg/L	
Chronic-Toxicity: D-Limonene			
Fish: No data available			
Invertebrates: NOEC/Daphnia/16 days = 0.115 mg/L			

*Estimates for product may be based on additional component data not shown.



SECTION XII - ECOLOGICAL INFORMATION (continued)

Toxicity: D-Limonene (continued)

Toxicity to microorganisms: Effects on terrestrial organisms: Sediment toxicity: EC50/activated sludge/3 hours = 209 mg/L No data available No data available

Component	Species	Test Results		
Acute-Toxicity: Fatty quaternary ammonium salt				
Fish LC50	Pimephales promelas	96 hours = 0.1 - 0.117 mg/L		
Crustacea EC50	Daphnia magna	No data available		
Algae IC50	Algae	No data available		
Chronic-Toxicity: Fatty quate	rnary ammonium salt			
Fish: No data available				
Invertebrates: No data availab	le			

*Estimates for product may be based on additional component data not shown.

Toxicity to microorganisms:	No data available
Effects on terrestrial organisms:	No data available
Sediment toxicity:	No data available

PERSISTENCE AND DEGRADABILITY:

Degradation:	Not readily biodegradable
Hydrolysis:	No data available
Photolysis:	No data available

RELEVANT INFORMATION ON HAZARDOUS COMPONENTS:

Alkylphenol ethoxylates:	Degradation: Not readily biodegradable. < 60% / 28 days (OECD 301 B) Hydrolysis: No data available Photolysis: No data available
Fatty alcohols alkoxylated:	Degradation: Expected to be ultimately biodegradable. Hydrolysis: No data available Photolysis: No data available
D-Limonene:	Degradation: Readily biodegradable. 80% / 28 days (OECD 301 D) Hydrolysis: No data available Photolysis: Half-life: 0.015 - 0.037 days
Fatty quaternary ammonium salt:	Degradation: No data available Hydrolysis: No data available Photolysis: No data available



SECTION XII - ECOLOGICAL INFORMATION (continued)

BIOACCUMULATIVE POTENTIAL: Partition co-efficient (Log Pow):	The product is not expected to bioaccumulate. Not applicable
Bioconcentration factor (BCF): RELEVANT INFORMATION ON HAZARDOUS COMPONENTS:	Not applicable
<i>Alkylphenol ethoxylates</i> Partition co-efficient (Log Pow): Bioconcentration factor (BCF):	2.1 - 3.4 5.9 - 48
<i>Fatty alcohols alkoxylated</i> Partition co-efficient (Log Pow): Bioconcentration factor (BCF):	Not applicable Not applicable
D-Limonene Partition co-efficient (Log Pow): Bioconcentration factor (BCF):	4.4 ₪ 37°C, pH 7 (OECD 117) 361 - 1022 L/kg
<i>Fatty quaternary ammonium salt</i> Partition co-efficient (Log Pow): Bioconcentration factor (BCF):	Not applicable No data available
MOBILITY IN SOIL:	No data available
RELEVANT INFORMATION ON HAZARDOUS COMPONENTS:	
Alkylphenol ethoxylates	No data available
Fatty alcohols alkoxylated	No data available
D-Limonene	1120 - 6324
Fatty quaternary ammonium salt	No data available
OTHER ADVERSE EFFECTS:	None known



SECTION XIII - DISPOSAL INFORMATION

WASTE DISPOSAL METHOD:Dispose in accordance with local and national regulations. If recycling
is not practicable, dispose of in compliance with local regulations.
Recycle In accordance with local and national regulations.

SECTION XIV - TRANSPORTATION INFORMATION

LAND TRANSPORT (DOT)	Not Classified
SEA TRANSPORT (IMDG)	Not Classified
AIR TRANSPORT (IATA)	Not Classified
PROPER SHIPPING NAME:	PDC-1200

SECTION XV - REGULATORY INFORMATION

NFPA RATING:	Health:	3	HMIS RATING:	Health:	3	
	Flammability:	1		Flammability:	1	
	Instability:	0		Physical Hazard	0	
				PPE:	В	

TSCA:

All components of this product are either listed on the inventory or are exempt from listing.

US SARA (Section 311/312):	Acute
(Section 313):	<i>None</i>
RCRA:	Not RCRA hazardous.
CALIFORNIA PROP 65 INFO:	WARNING! This product contains a chemical known in the State of California to cause cancer, Acetaldehyde, Ethanol in alcoholic bever ages, Ethylene glycol (ingested), Ethylene oxide, Chloromethane, Propylene oxide.

SECTION XVI - OTHER INFORMATION

ABBREVIATIONS AND SYMBOLS: < Less Than > More Than

PREPARED IN ACCORDANCE WITH: U.S. Code of Federal Regulations 29 CFR 1910.1200

The product information contained herein is believed to be accurate as of the date of the Safety Data Sheet, and is provided without warranty, expressed or implied, as to the results of use of this information or the product to which it relates. Recipient assumes all responsibility for the use of the information and the use (alone or in combination with any other product), storage or disposal of the product, including any resultant personal injury or property damage

End of Safety Data Sheet