



Material Safety Data Sheet

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SECTION I - Material Identity

Item Name	
Part Number/Trade Name	48619 PELS (R) CAUSTIC SODA BEADS
National Stock Number	6810001746581
CAGE Code	47695
Part Number Indicator	A
MSDS Number	189584
HAZ Code	B

SECTION II - Manufacturer's Information

Manufacturer Name	PPG (DIST R. M. WAITE CO.)
Street	ONE PPG PLACE
City	PITTSBURG
State	PA
Country	US
Zip Code	15272
Emergency Phone	800-424-9300 CHEMTREC
Information Phone	800-243-6774 / 304-843-1300

MSDS Preparer's Information

Date MSDS Prepared/Revised	03OCT97
Active Indicator	Y

Alternate Vendors

SECTION III - Physical/Chemical Characteristics

Hazard Storage Compatibility Code	NR
NRC License Number	NR
Net Propellant Weight (Ammo)	NR
Appearance/Odor	CAUSTIC SODA - BEADS / WHITE TO OFF WHITE BEADS WITH NO ODOR
Boiling Point	1390 C
Melting Point	310-320 C
Vapor Pressure	NA
Vapor Density	NA
Specific Gravity	2.13
Decomposition Temperature	NA
Evaporation Rate	NR
Solubility in Water	347G/100G WATER
Chemical pH	STRNG BASIC
Corrosion Rate	NR
Container Type	E
Container Pressure Code	1
Temperature Code	4
Product State Code	S

SECTION IV - Fire and Explosion Hazard Data

Flash Point Method	NA
Lower Explosion Limit	NR
Upper Explosion Limit	NR
Extinguishing Media	EXTINGUISH FIRE USING AGENT SUITABLE FOR SURROUNDING DIRE. USE WATER SPRAY TO KEEP CONTAINERS COOL
Special Fire Fighting Procedures	CONTACT WITH SOME METALS (PARTICULARLY MAGNESIUM, ALUMINUM AND GALVANIZED ZINC) CAN RAPIDLY GENERATE HYDROGEN WHICH IS EXPLOSIVE
Unusual Fire/Explosion Hazards	NR

SECTION V - Reactivity Data

Stability	YES
Stability Conditions to Avoid	CONTACT WITH ORGANIC MATERIALS AND CONCENTRATED ACIDS MAY CAUSE VIOLENT REACTIONS
Materials to Avoid	CONTACT WITH MAGNESIUM, ALUMINUM, GALVANIZED ZINC, TIN, CHROMIUM, BRASS AND BRONZE GENERATES EXPLOSIVE HYDROGEN. REACTIONS WITH VARIOUS FOOD SUGARS MAY FORM CARBON MONOXIDE
Hazardous Decomposition Products	CARBON MONOXIDE
Hazardous Polymerization	NO
Polymerization Conditions to Avoid	WILL NOT OCCUR

SECTION VI - Health Hazard Data

Route of Entry: Skin	YES
Route of Entry: Ingestion	YES
Route of Entry: Inhalation	YES
Health Hazards - Acute and Chronic	CAUSES SEVERE EYE AND SKIN BURNS. REACTS WITH MOISTURE TO RELEASE HEAT AND REACTS WITH METAL TO RELEASE HYDROGEN
Carcinogenity: NTP	NONE
Carcinogenity: IARC	NONE
Carcinogenity: OSHA	NONE
Explanation of Carcinogenity	NONE
Symptoms of Overexposure	[EYE] INTENSE IRRITATION - BURNS EYES AND EYELIDS. POTENTIAL LOSS OF SIGHT. [SKIN] INTENSE IRRITATION - BURNS, REDDENING - SWELLING. DEEP ULCERATIONS DIFFICULT TO HEAL. UPON CONTACT WITH PRODUCT IN SOLUTION THE SKIN BECOMES "SOAPY" TO THE TOUCH. [INHAL] MISTS AND DUSTS CAUSES BURNS OF THE NASAN PASSAGE, SEVERE IRRITATION OF THE RESPIRATORY TRACT AND GASTROINTESTINAL TRACT DAMAGE [INGEST] IRRITATION - BURNS TO THE MOUTH, THROAT, ESOPHAGUS AND STOMACH. INGEST HAS CAUSED DEATH IN ANIMALS AND HUMANS
Medical Cond. Aggrevated by Exposure	SKIN AND LUNG DISORDERS MAY BE AFFECTED ADVERSLY BY SODIUM HYDROXIDE; AN INDIVIDUALS SPECIFIED MEDICAL CONDITION AND TYPE OF EXPOSURE DETERMINE THE LIKELIHOOD OF AN ADVERSE EFFECT
Emergency/First Aid Procedures	[INHAL] REMOVE TO FRESH AIR,

SUPPORT BREATHING AS NECESSARY. SEEK MED ATTEN [EYE] IMMEDIATELY FLUSH FOR AT LEAST 15 MINUTES, USING LARGE AMOUNTS OF WATER. LIFT EYELIDS. SEEK MED ATTEN [SKIN] IMMEDIATELY DIRECT INDIVIDUAL UNDER A SHOWER. REMOVE CONTAMINATED CLOTHING INCLUDING. WASH SKIN WITH WATER UNTIL "SOAPY" FEEL IS GONE. CONTINUE IRRIGATION AND SEEK IMMEDIATE MED ATTENTION IF CONTACT IS EXTENDED OR WITH A HOT SOLUTION. DO NOT ATTEMPT TO GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. TREAT FOR SHOCK

SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	<p>VACUUM TO CLEAN UP SPILL. IF MIXED WITH WATER, OR LIKELY TO BECOME MIXED WITH WATER OR ANY LIQUID, DIKE AREA TO CONTAIN SPILL. RECLAIM IF POSSIBLE. OF DILUTE SPILL WITH LARGE MAOUNTS OF WATER THEN NEUTRALIZE WITH DILUTE ACID. USE VACUUM TRUCK TO PICK UP NEUTRALIZED MATERIAL FOR PROPER DISPOSAL. PROPERLY NEUTRALIZED LIQUID RESIDUES (PH 6 TO 9) MAY BE DISPOSED OF IN WASTE WATER TREATMENT FACILITIES WHICH ALLOW NEUTRAL SALT SOLUTIONS. AFTER ALL VISABLE TRACES HAVE BEEN REMOVED, FLUSH AREA W/ WATER</p>
Neutralizing Agent	NR
Waste Disposal Method	<p>DISPOSE OF ANY DRY RESIDUES IN AN APPROVED HAZARDOUS WASTE MANAGEMENT FACILITY OR BY NEUTRALIZING AND DISPOSING OF CHEMICAL MATERIALS AND OR THEIR CONTAINERS TO PREVENT ENVIRONMENTAL CONTAMINATION. DISPOSE OF THE CHEMICAL MATERIALS/CONTAINERS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS</p>
Handling and Storage Precautions	<p>WEAR APPROPRIATE PERSONAL PROTACTIVE EQUIPMENT. NEVER TOUCH EYES OR FACE WITH HANDS OR GLOVES THAT MAY BE CONTAMINATED WITH THIS PRODUCT. WHEN MAKING SOLUTIONS</p>

Other Precautions	<p>OR DILUTING, ONLY ADD CAUSTIC SODA SLOWLY TO SURFACE OF COLD WATER WHILE STIRRING. DO NOT ADD TO WARM OR HOT WATER, A VIOLENT ERUPTION OR</p> <p>DO NOT ENTER A STORAGE TANK OR CONTAINER (TRUCK OR RAIL) THAT HAS CONTAINED THIS PRODUCT, EVEN IF IT APPEARS EMPTY. STORE IN A COOL, DRY, WELL-VENTILATED PLACE. STORE INDOORS. KEEP CONTAINER CLOSED WHEN NOT IN USE</p>
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SECTION VIII - Control Measures

Respiratory Protection	USE A FULL FACE RESPIRATORS APPROVED BY NIOSH/MSHA IF DUSTS/MISTS ARE EXPECTED OR EXCEEDS ESTABLISHED EXPOSURE LIMITS
Ventilation	EFFECTIVE VENTILATION SHOULD BE PROVIDED TO MEET ESTABLISHED EXPOSURE LIMITS. LOCAL EXHAUST VENTILATION ADVISED
Protective Gloves	NITRILE, NEOPRENE, NATURAL RUBBER
Eye Protection	CLOSE FITTING CHEMICAL SAFETY GOGGLES WITH FACESHIELD
Other Protective Equipment	RUBBER BOOTS WITH SAFETY TOES, RUBBER APRONS, PVC CLOTHING AND PLASTIC HARD HATS
Work Hygenic Practices	WASH THOROUGHLY AFTER HANDLING

SECTION IX - Label Data

Protect Eye	YES
Protect Skin	YES
Protect Respiratory	YES
Chronic Indicator	NO
Contact Code	MODERATE
Fire Code	UNKNOWN
Health Code	UNKNOWN
React Code	UNKNOWN
Specific Hazard and Precaution	NO TARGET ORGANS LISTED FOR CHRONIC EXPOSURES

SECTION X - Transportation Data

Container Quantity	48.5
Unit of Measure	KG

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)	0
Volatile Organic Compounds (G/L)	0

SECTION XII - Ingredients/Identity Information

Ingredient #	01
Ingredient Name	SODIUM HYDROXIDE -NAOH (95-99%)
CAS Number	1310732
Proprietary	NO
Percent	99
