

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Instant Power	Item	1650
Product Use	Crystal Lye		
Product Use	Drain Opener		
Company Name	Instant Power Corporation	Office	(214) 459-9315
	1255 Viceroy	Fax	(214) 943-1306
	Dallas TX 75247	Web	www.myinstantpower.com

EMERGENCY TELEPHONE NUMBER CHEMTREC (800) 424-9300 INTERNATIONAL + 1-703-741-5970

SECTION – 2 HAZARD IDENTIFICATION

Pictogram



Classification in accordance with (29 CFR 1910.1200)
US OSHA / HCS 2012 regulation

Signal Word Danger

Hazards PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS

May be corrosive to metals
Harmful if swallowed
Causes severe skin burns and eye damage
Causes serious eye damage
May cause respiratory irritation
Harmful to aquatic life

HAZARD CATEGORY CLASSIFICATION CODE

Category 1	Corrosive to Metals	H290
Category 4	Acute Toxicity (Oral)	H302
Category 1B	Skin & Eye (Corrosion)	H314
Category 1	Eye (Damage / Irritation)	H318
Category 3	STOT Single Exposure	H335
Category 3	Acute Toxicity (Aquatic)	H402

Precautions HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL

Keep out of reach of children
Read label before use
Keep only in original container
Do not breathe dust / fume / gas / mist / vapours / spray
Do not get in eyes, on skin, or on clothing
Wash thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid release to the environment
Wear protective gloves / protective clothing / eye protection / face protection
In case of inadequate ventilation wear respiratory protection
Store in a well-ventilated place, Store locked up, Keep container tightly closed
Dispose of material in accordance with all State and Federal Guidelines and Regulations

CODE

P102
P103
P234
P260
P262
P264
P270
P273
P280
P285
P403+P405+P233
P501

SECTION – 3 COMPOSITION INFORMATION

(Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

<u>CHEMICAL NAME</u>	<u>COMMON NAME AND SYNONYMS</u>	<u>CAS #</u>	<u>IMPURITIES</u>	<u>PERCENT</u>
Sodium Hydroxide	Caustic Soda ; Lye ; Soda Lye ; Sodium Hydrate	1310-73-2		100%

SECTION – 4 FIRST AID MEASURES

Eye Contact	Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove contact lenses if present and easy to do without injury to the eye and continue rinsing, Obtain immediate medical attention, preferably from an ophthalmologist or Emergency Room
Skin Contact	Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Be sure to remove any contaminated clothing and wash before reuse, If irritation is present or occurs obtain medical attention
Inhaled	Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention
Ingested	DO NOT INDUCE VOMITING, unless directed to do so by medical personnel, If person is fully conscious, rinse mouth with water, Call a physician, or poison control center, and get medical attention, If vomiting occurs, keep head below hips to prevent aspiration into the lungs
Important Effects	Exposure can affect, eyes, mucous membranes, upper respiratory tract, skin
Important Symptoms	Symptoms may include, coughing, corrosive burns, eye or skin damage

SECTION – 5 FIRE FIGHTING MEASURES

Extinguishing Media	Not flammable: Use extinguishing media for surrounding fire, On dilution or dissolving in water, considerable heating will occur
Explosion Hazard	Not considered to be a fire or explosion hazard, Hot or molten material can react violently with water, Can react with certain metals such as aluminum to generate flammable hydrogen gas
Hazardous Decomposition	Burning or thermal decomposition can produce, sodium oxides
Protective Equipment	Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

SECTION – 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Warn personnel of spill, Stop spill or release only if it can be done safely, Keep unprotected personnel from entering the hazard area, Ventilate area
Personal Precautions	Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill, Do not touch damaged containers or spilled material unless wearing appropriate protective equipment
Protective Equipment	Safety Glasses, Gloves, Chemical Apron, Dust Respirator
Containment	Prevent spill from entering the environment
Clean Up Procedures	Sweep up and place in disposal container, Do not flush liquid into storm sewer or surface waters, Mop area with clean water, Thoroughly clean contaminated surfaces
Disposal	Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION – 7 HANDLING AND STORAGE

Handling	Do not get in eyes, on skin, or clothing, Avoid breathing dust, Do not take internally, Use appropriate safety equipment, and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly with soap and water after handling, Avoid release to the environment, Empty containers retain product residue (vapors, liquid or solids) observe all precautions when handling
Storage	Keep Out Of Reach Of Children, Keep container closed when not in use, Store in a cool place away from incompatible materials, Do not transfer product to other containers. Store only in the original corrosive resistant container
Incompatible Materials	Incompatible with, organic materials, strong acids, strong oxidizing agents, most metals

SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE LIMITS**

CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA (TWA 8)	OSHA (CEIL)	NIOSH (TWA 10)	NIOSH (STEL)	Significant Exposure
Sodium Hydroxide	2 mg/m ³		2 mg/m ³	2 mg/m ³		2 mg/m ³	ED,SD,RT

PERSONAL PROTECTION

Eyes	Wear safety glasses or goggles or face shield when handling / using this material
Hands	Wear chemical resistant impervious gloves when handling / using this material
Lungs	Wear a dust mask designed to protect against inhalation of dust particles or if irritation is experienced
Body	"If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when handling / using this material
Response	Access to an eye wash station is a recommended safety precaution for handling / using this type of material
Ventilation	General Ventilation, If exposure limits listed above are exceeded, or irritation is experienced, use a MSHA / NIOSH approved dust mask or respirator

HMIS HAZARD RATINGS	
Health	3
Flammability	0
Reactivity	1
Personal Protection	H

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	Not Flammable	Specific Gravity / Density	2.13
Flammable Limits (v)	ND	pH (± 0.3)	14.0 (5% solution @ 20°C)
Auto-Ignition Temp.	ND	Viscosity (mm²s / cSt)	NA
Physical State	Solid beads	Melting / Freeze Point	318°C
Appearance	White	Boiling Point	1390°C
Odor	Odourless	Vapor Density (air=1)	1.38
Odor Threshold	NA	Vapor Pressure (mmHg)	ND
Solubility	108g / 100ml (H ₂ O @ 20°C)	Evaporation Rate (nBuAc=1)	ND
Volatiles	0%	Partition Coefficient	ND
VOC	0%	Molecular Weight (g/mol)	40.0
LVP-VOC	0%	Decomposition Temperature	ND

SECTION – 10 STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients
Chemical Stability	Stable under normal ambient and anticipated conditions of use
Hazardous Polymerization	Will not occur
Conditions To Avoid	Incompatible materials
Incompatible Materials	Incompatible with, organic materials, strong acids, strong oxidizing agents, most metals
Hazardous Decomposition	Burning or thermal decomposition can produce, sodium oxides

SECTION – 11 TOXICOLOGICAL INFORMATION**ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes	Causes serious eye damage
Skin	Can cause serious skin damage, or corrosive burns
Inhalation	Dust may cause, respiratory or mucosal irritations
Ingestion	Harmful if swallowed, Ingestion may affect, mouth, throat, esophagus, stomach, gastrointestinal tract, Symptoms may include, burning of the, mouth, throat, and stomach, nausea, vomiting, abdominal pain

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes	Causes serious eye damage, partial or complete blindness
Skin	Causes serious skin damage, ulcerations, corrosive burns, Effects may be delayed
Inhalation	Dust may cause, respiratory or mucosal irritations, coughing, breathing difficulties, dizziness, lung oedema
Ingestion	Harmful if swallowed, Ingestion can affect, mouth, throat, esophagus, stomach, mucous membranes, gastrointestinal tract, Symptoms may include, burning of the, mouth, throat, and stomach, digestive tract burns, difficulty swallowing, nausea, vomiting, abdominal pain, internal bleeding

Acute Tox Calculated	Oral:	325 mg/kg	Dermal:	> 2000 mg/kg	Inhaled:	> 10 mg/l
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Acute Tox Category	Category 4 (Oral >300, ≤2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >5 mg/l) Dust or Mist
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Target Organs	Mucous Membranes, Respiratory Tract, Skin, Eyes
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Medical Conditions	Preexisting, eye, skin, respiratory, disorders may be aggravated by exposure to this product
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Notes to Physician	Contains Sodium Hydroxide, vomiting may cause aspiration pneumonia
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CARCINOGENIC – This product contains concentrations above 0.1% of the following:

<u>CHEMICAL NAME</u>	<u>NTP</u>	<u>ACGIH</u>	<u>IARC</u>	<u>GHS Category</u>
None Listed	NA	NA	NA	NA

MUTAGENIC AND REPRODUCTIVE EFFECTS – This product contains concentrations above 0.1% of the following:

<u>CHEMICAL NAME</u>	<u>Germ Cell Mutagenicity</u>	<u>Toxic to Reproduction</u>
None Listed	NA	NA

COMPONENTS ACUTE TOXICITY

<u>CHEMICAL NAME</u>	<u>Type</u>	<u>Form</u>	<u>Subject</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
Sodium Hydroxide	LD50	Oral	Rabbit	325 mg/kg		4 (>300, ≤2000 mg/kg)
		Inhaled	No relevant data			
		Dermal	No relevant data			


SECTION – 12 ECOLOGICAL INFORMATION


<u>CHEMICAL NAME</u>	<u>Type</u>	<u>Subject</u>	<u>Subject Latin</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
Sodium Hydroxide	LD50	Rainbow Trout	(Oncorhynchus mykiss)	45.4 mg/l	96 Hours	3 (>10, ≤100 mg/l)
	EC50	Water Flea	(Daphnia)	40.38 mg/l	48 Hours	3 (>10, ≤100 mg/l)
	LD50	Mosquito Fish	(Gambusia affinis)	125 mg/l	96 Hours	4 (>100 mg/l)
Presistence And Degradability	Not applicable for inorganic substances					
Bioaccumulative Potential	There is no evidence to suggest bioaccumulation will occur					
Mobility In Soil	This material is a mobile liquid					
Other Adverse Effects	The pH effect of sodium hydroxide in water is naturally reduced by the absorption of atmospheric carbon dioxide, Harmful to aquatic life					

SECTION – 13 DISPOSAL CONSIDERATIONS


Disposal Statement	DO NOT DUMP INTO ANY STORM SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER Dispose of any waste in accordance with all State and Federal Guidelines and Regulations
Container Disposal	Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Triple rinse container then offer for recycling. If not available, puncture and dispose in a sanitary landfill
Material Disposal	This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing in some or all of its components, Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

SECTION – 14 TRANSPORT INFORMATION**DOT CLASSIFICATION**

UN Number		Proper Shipping Name n.o.s. (Chemicals) or "Limits"					
Ltd Qty		"Limited Quantity" n.o.s.(Sodium Hydroxide, Solid)					
Hazard Class	Packing Group	Label Codes	Reportable Quantity (lb)	Response	Marine Pollutant	Hazard Label	Secondary
8	II	Ltd Qty	(1000) Sodium Hydroxide	154	No		
Additional Info: "Limited Quantity" PGII Corrosive Solids, inner packagings not over or not over 1.0 kg (2.2 pounds) net capacity each, packed in a strong outer packaging							

<u>UN Number</u>		<u>Proper Shipping Name</u> n.o.s. (Chemicals) or "Limits"					
UN 1823		Sodium Hydroxide, Solid					
<u>Hazard Class</u>	<u>Packing Group</u>	<u>Label Codes</u>	<u>Reportable Quantity (lb)</u>	<u>Response</u>	<u>Marine Pollutant</u>	<u>Hazard Label</u>	<u>Secondary</u>
8	II	Corrosive Solid	(1000) Sodium Hydroxide	154	No		
Additional Info:							

SECTION – 15 REGULATORY INFORMATION

TSCA														
CHEMICAL NAME	Sec 8(b) Active Inventory				Sec 8(d) Health And Safety		Sec 4(a) Chemical Test Rules			Sec 12(b) Export Notification				
Sodium Hydroxide	Yes													
REPORTABLE QUANTITIES														
CHEMICAL NAME	EPCRA TPQ Sec 302		EPCRA RQ Sec 304		CERCLA RQ Sec 103		TRI Sec 313			RCRA Code		RMP TQ Sec 112r		
Sodium Hydroxide					1000									
SARA														
CHEMICAL NAME	Section 311				Section 311 / 312 Hazards									
CHEMICAL NAME	Hazardous Chemical				Acute		Chronic		Flammable		Pressure		Reactive	
Sodium Hydroxide	Yes				Yes		Yes							
RIGHT TO KNOW														
CHEMICAL NAME	CA		CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Sodium Hydroxide							Yes		Yes			Yes		
CALIFORNIA														
	WARNING: This Product can expose you to chemicals (Listed below) known to the State of California to cause cancer, birth defects or reproductive harm. For more information go to www.P65Warnings.ca.gov													
CHEMICAL NAME	CAS #		Birth Defects			Reproductive Harm			Carcinogen			Developmental		
None Listed														
CLEAN AIR WATER ACTS														
CHEMICAL NAME	CAS #		Clean Air Acts							Clean Water Acts				
CHEMICAL NAME	CAS #		HAP		Ozone Class 1		Ozone Class 2		HS		PP		TP	
None Listed														
INTERNATIONAL REGULATIONS – The components of this product are listed on the chemical inventories of the following countries:														
CHEMICAL NAME	Australia		Canada		Europe (EINECS)			Japan		Korea			UK	
Sodium Hydroxide	Yes		Yes		Yes			Yes		Yes			Yes	

SECTION – 16 OTHER INFORMATION**SDS LEGEND DESCRIPTION**

~	Approximately	KD	Kidney Damage (nephropathy)
ACGIH	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NE	Not Established
EPA	Environmental Protection Agency	NFPA	National Fire Protection Association
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NIOSH	National Institute for Occupational Safety and Health
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous Air Pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours) - NOISH (10 hours)
IG / IH	(IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas)	UEL	Upper Explosive Limit

Instant Power Corporation

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