

## MSDS (Material Safety Data Sheet) Gold Activator - C2066

1		Product Identification	
	1	Manufacturer:	
		1 Name:	Angelgilding.com
		2 Street Address:	619 S. Clarence Ave
		3 City, State, and Zip:	Oak Park, IL 60304-1303
		4 24-hour Emergency Number	(708) 383-3340
		5 Product Code(s):	Gold Activator - C2066
2		Preparer:	
	1	Name:	M. G. King
	2	Phone Number:	(708) 383-3340
	3	Revision Information:	5/22/2008
2		Composition/Information on Ingredients	
		Per Ingredient:	
		1 Synonyms:	SODIUM(I) carbonate, anhydrous
		2 CAS Id:	497-19-18
		3 Formula:	Na2CO3 in water
		4 Formula Weight:	105.99
		5 Percent:	2
		6 Hazardous:	
3		Hazards Identification	
	1	Overview:	
			WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY BE HARMFUL IF SWALLOWED OR INHALED.
	2	SAF-T-DATA Ratings:	
		1 Health Rating:	2 - Moderate (Life)
		2 Flammability Rating:	0 - None
		3 Reactivity Rating:	1 - Slight
		4 Contact Rating:	3 - Severe (Life)
		5 Protective Equipment:	goggles & shield; lab coat & apron; vent hood; proper gloves
		6 Storage Color Code:	Green (General Storage)
	3	Potential Health Effects:	
		1 Inhalation:	
			Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.
		2 Ingestion:	
			Causes irritation to the gastrointestinal tract. Sodium carbonate is only slightly toxic, but large doses may be corrosive to the gastro-intestinal tract where symptoms may include severe abdominal pain, vomiting, diarrhea, collapse and death.
		3 Skin Contact:	
			Causes irritation to skin. Symptoms include redness, itching, and pain.
		4 Eye Contact:	
			Causes irritation, redness, and pain.
		5 Chronic Exposure:	
			Prolonged or repeated skin exposure may cause sensitization.
		6 Aggravation of Pre-existing Conditions:	
4		First Aid Measures	

**MSDS (Material Safety Data Sheet)**  
**Gold Activator - C2066**

	1	Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
	2	Ingestion:	
			Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.
	3	Skin Contact:	
			Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
	4	Eye Contact:	
			Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
	5	Note to Physician:	
			Consider endoscopy in all suspected cases of sodium carbonate poisoning. Perform blood analysis to determine if dehydration, acidosis, or other electrolyte imbalances occurred.
5		Fire Fighting Measures:	
	1	Fire:	
			Not considered to be a fire hazard.
	2	Explosion:	
			Not considered an explosion hazard, but sodium carbonate may explode when applied to red-hot aluminum.
	3	Fire Extinguishing Media:	
			Use any means suitable for extinguishing surrounding fire.
	4	Special Information:	
			In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.
6		Accidental Release Measures:	
			Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust.
	7	Handling and Storage:	
			Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.
8		Exposure Controls/Personal Protection:	
	1	Airborne Exposure Limits:	
		1 OSHA PEL:	
		2 ACGIH TLV:	
	2	Ventilation System:	

## MSDS (Material Safety Data Sheet)

### Gold Activator - C2066

		A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.	
	3	Personal Respirators (NIOSH Approved):	
		For conditions of use where exposure to the substance is apparent and engineering controls are not feasible, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.	
	4	Skin Protection:	
		Wear protective gloves and clean body-covering clothing.	
	5	Eye Protection:	
		Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.	
9		Physical and Chemical Properties:	
	1	Appearance:	Clear, colorless solution.
	2	Odor:	Odorless.
	3	Solubility in water:	Completely miscible with water.
	4	Density (g cm <sup>-3</sup> ):	
	5	pH:	11.58
	6	% Volatiles by volume @ 21C (70F):	ca. 90
	7	Boiling Point: °C	
	8	Melting Point (°C):	
	9	Vapor Density (Air=1):	
	10	Vapor Pressure (mm Hg):	
	11	Evaporation Rate (BuAc=1):	
10		Stability and Reactivity:	
	1	Stability:	Stable under ordinary conditions of use and storage.
	2	Hazardous Decomposition Products:	Oxides of carbon and sodium oxide.
	3	Hazardous Polymerization:	Will not occur.
	4	Incompatibilities:	
		Fluorine, aluminum, phosphorous pentoxide, sulfuric acid, zinc, lithium, moisture, calcium hydroxide and 2,4,6-trinitrotoluene. Reacts violently with acids to form carbon dioxide.	
	5	Conditions to Avoid:	Incompatibles.
11		Toxicological Information:	
	1	Oral rat LD50:	4090 mg/kg
	2	Tumorigen:	
	3	Mutagen:	Investigated
	4	Reproductive effector:	
	5	Carcinogenicity:	
	6	IARC Category:	
	7	Skin rabbit:	500mg/24H, mild
	8	Eye rabbit:	50 mg severe
	9	Inhalation rat LC50	2300 mg/m <sup>3</sup> /2H

**MSDS (Material Safety Data Sheet)**  
**Gold Activator - C2066**

12		Ecological Information	
	1	Environmental Fate:	
	2	Environmental Toxicity:	
13		Disposal Considerations:	
		Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.	
14		Transport Information:	
	1	Domestic (Land, D.O.T.):	
	1	Proper Shipping Name:	Not a hazard
	2	Hazard Class:	
	3	UN/NA:	
	4	Packing Group:	
	5	Information reported for product/size:	
	2	International (Water, I.M.O.):	
	1	Proper Shipping Name:	Not a hazard
	2	Hazard Class:	
	3	UN/NA:	
	4	Packing Group:	
	5	Information reported for product/size:	
	3	International (Air, I.C.A.O.):	
	1	Proper Shipping Name:	
	2	Hazard Class:	
	3	UN/NA:	
	4	Packing Group:	
	5	Information reported for product/size:	
15		Regulatory Information:	
	1	TSCA:	Yes
	2	EC:	Yes
	3	Japan:	Yes
	4	Australia:	Yes
	5	Korea:	Yes
	6	Canada:	Yes
	7	Chemical Weapons Convention:	
	8	Known to the State of California to cause cancer (Y/N):	N
	9	Australian Hazchem Code:	
	10	Poison Schedule:	
	11	Controlled Products Regulations:	
16		Other Information	
	1	NFPA Ratings:	

**MSDS (Material Safety Data Sheet)  
Gold Activator - C2066**

	1	Health:	2
	2	Flammability:	0
	3	Reactivity:	0
	2	Label Hazard Warning:	
		WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY BE HARMFUL IF SWALLOWED OR INHALED.	
	3	Label Precautions:	Avoid contact with eyes, skin and clothing. Avoid breathing mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
	4	Label First Aid:	
		In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, give large amounts of water to drink. Never give anything by mouth to an unconscious person. In all cases, get medical attention.	
	5	Product Use:	Commercial mirroring
	6	Disclaimer:	
		Angelgilding.com provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Angelgilding.com. makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Angelgilding.com will not be responsible for damages resulting from use of or reliance upon this information.	