

Safety Data Sheet

Trade Name: Calcined Spinel

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Synonyms:SPINEL SP67, SPINEL SP78, SPINEL SP90Article Number:No other identifiersCAS Number:1344-28-1Recommended Use:Refractories, ceramics, glass and chemical industries, abrasives, polishing aids; use as an additive, filler, pigment.Restrictions on Use:Not knownManufacturer/Supplier:GNPGraystar Specialty Materials 37 John Glenn Dr. Amherst, NY 14228Emergency telephone number:716-759-6600HAZARD(S) IDENTIFICATIONSNot a hazardous substance or mixture OSHA Globally Harmonized System (GHS) regulations within the United States.GHS Label Elements:The product is NOT classified as hazardous according to OSHA Globally Harmonized System (GHS) regulations within the United States.Hazard Pictograms:Not RegulatedSignal Word:Not RegulatedPrecautionary Statements:Not Regulated	Product Identifier	Spinel
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Hazard Statements: Not Regulated	Hazard Pictograms:	Not Regulated
	Signal Word:	Not Regulated
Precautionary Statements: Not Regulated	Hazard Statements:	Not Regulated
	Precautionary Statements:	Not Regulated

Hazards not otherwise classified (HNOC) or not covered by GHS: None

Classification System:

	000	NFPA Ratings (scale 0-4) Health = 0 Fire = 0 Reactivity = 0
	HEALTH 0 FLAMMABILITY 0 REACTIVITY 0	HMIS Ratings (scale 0-4) Health = 0 Fire = 0 Reactivity = 0
r Hazarde:		

Other Hazards:

Results of PBT and vPvB Assessment

- **PBT:** Not applicable
- vPvB: Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS



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Chemical Characterization:	Formula: MgAl ₂ O ₄
	1302-67-6 - SPINEL
CAS No. Description:	
	215-105-9 - SPINEL
4. FIRST-AID MEASURES	
General Information:	No special measures required
After inhalation:	Supply fresh air, consult doctor in case of complaints.
After skin contact:	Brush off loose particles. Wash with soap and water. If skin irritation is experienced, consult a doctor.
After eye contact:	Remove contacts if possible if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:	Rinse out mouth and drink plenty of water. Do not induce vomiting; immediately call for medical help.
Most important symptoms and effects, both acute and delayed:	No symptoms are expected
Indication of any immediate medical attention and special treatment needed:	None
Danger:	None
5. FIRE-FIGHTING MEASURES	
	Non-flammable, but in case of other fire, see below
Extinguishing Media: Suitable Extinguishing Agents:	The product is not combustible. Use the usual extinguishing measures (carbon dioxide (CO), dry chemical, foam; water spray). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
For safety reasons unsuitable extinguishing agents:	Full water jet.
Special Hazards Arising from the Substance or Mixture:	None
Advice for firefighters:	Wear self-contained breathing apparatus for firefighting if necessary.
Additional Information:	None
6. ACCIDENTAL RELEASE MEASUR	RES
Personal Precautions, Protective Equipment & Emergency Procedures:	For non-emergency personnel: Use personal protective equipment (Section 8). Emergency procedures: Ensure adequate ventilation.
Environmental Precautions:	No special measures required
Methods and Material for Containment and Cleaning Up:	Collect the product and recycle it for reuse. Take up mechanically and collect in suitable container and dispose according to current regulations.
Reference to other sections:	See also Sections 8 and 13.
7. HANDLING AND STORAGE	
Precautions for Safe Handling:	Measures to prevent fire: Ensure adequate ventilation.



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	Measures to prevent aerosol and dust generation: Prevent dusting. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe dust.
Information about protection against explosions and fires:	No special measure required
Requirements to be met by storerooms and receptacles:	No special requirements
Further information about storage conditions:	None.
Specific End Use(s):.	No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

<u>1302-67-6 SPINEL</u>	
PEL (USA)	term value: 15*; 5** mg/m ³ *Total dust; ** Respirable fraction
TLV (USA)	Long-term value: 1* mg/m ³ as Al; *as respirable fraction
EL (Canada)	Long-term value: 1.0 mg/m ³ respirable, as Al
EV (Canada)	Long-term value: 10 mg/m ³ total dust

Additional information: the lists that were valid during the creation were used as basis.

EXPOSURE CONTROLS

Personal Protective Equipment:

•••	
General Protective and Hygienic Measures:	The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid close or long term contact with the skin. Do not inhale dust.
Engineering Controls:	No further relevant information available.
Breathing Equipment:	Not needed under normal use and adequate ventilation. In case of insufficient ventilation wear suitable respiratory protection. Mask with dust filter (P2) or FFP2(EN 149). Wear a mask with a filter for dust/aerosols - FFP3 (EN 149). 'High/elevated concentrations' means that the occupational exposure limit values have been exceeded.
Skin Protection:	Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules. Gloves are advised for repeated or prolonged contact.
Eye protection:	Safety glasses with side shields



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Control of Environment Exposure:	Avoid dust formation
9. PHYSICAL AND CHEMICAL P	ROPERTIES
Information on basic physical a	nd chemical properties
Physical State:	Solid
Color:	Amber
Odor:	Odorless
рН	6.0-9.5
Melting Point:	2,135 ° C
Initial Boiling point	Not applicable
Flash Point	Not applicable
Density	3.0 – 3.4 g/cm ³
Solubility	Insoluble
Danger of explosion:	Product does not present an explosion hazard
10. STABILITY AND REACTIVITY	
Thermal Decomposition / Conditions to be Avoided:	None under normal processing
Possibility of Hazardous Reactions:	None known.
Bio accumulative Potential:	
Incompatible Materials:	No further relevant information available.
Reactivity:	None under normal processing
Chemical Stability:	Stable under normal conditions
Hazardous Decomposition:	None known.
11. TOXICOLOGICAL INFORMAT	ION
Acute toxicity:	
Primary irritant effect	
On the skin:	No information
On the eye:	No information
Chronic toxicity:	No further relevant information available
Additional Toxicological Information:	The product is not subject to classification according to the calculation method of the General EU Classification Guideline for the Preparations as issued in the latest version. When use and handled according to specifications, the product does not have any harmful effects to our experience and the informatio provided to us
Acute effects (acute toxicity, irritation and corrosively)	From product as supplied: None
Repeated Dose Toxicity:	No further relevant information available



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	nogenity, oxicity for	None		
reproduction) 12. ECOLOGICAL INI	FORMATION			
Aquatic Toxicity:		Generally, not	hazardous for wate	er.
Persistence and de	gradability:		luct, is not eliminab leaning processes.	le from water by mean
Other Adverse Effe	cts:	None known		
Bio accumulative P	otential:	Does not accu	imulate in organism	S
Mobility in soil:		No information	n available	
13. DISPOSAL CONS	IDERATIONS			
Waste Treatment M	ethods			
Recommendation:	The user of thi residues and c	ontainers in compliar ations regarding trea	esponsibility to dispondent	local, state and feder disposal for hazardou
Contaminated Pack	ages:	Disposal must be m	ade according to of	ficial regulations
14. TRANSPORT INF	ORMATION			
Note: Not classified	as a dangerous	according to trans	port regulations.	
DOT, ADR, ADN, IM	DG, IATA: Not	Regulated UN prope	er shipping name	Not regulated
DOT, ADR, ADN, IM	DG, IATA Not F	Regulated Transport	hazard class(s)	Not regulated
DOT, ADR, ADN, IM	DG, IATA Class			Not regulated
Packing group DOT	, ADR, IMDG, IA	ТА		Not regulated
15. REGULATORY IN	FORMATION			
Safety, health and e	nvironmental re	gulations/legislatio	n specific for the s	ubstance or mixture
Note:			Regulations apply	to dust
United States Feder	al Regulations			
SARA				
Continu OFF (autrona	ly hazardous sul	ostances)	Substance is not I	isted
Section 355 (extreme				
Section 355 (extreme Section 313 (Specific	-	,	Substance is not l	isted
	toxic chemical li	stings):		
Section 313 (Specific	c toxic chemical linnes Control Act)	stings):	Substance is not I	
Section 313 (Specific TSCA (Toxic Substan	toxic chemical linces Control Act) pories:	stings): :	Substance is not I	listed
Section 313 (Specific TSCA (Toxic Substan Carcinogenic Categ	toxic chemical linces Control Act) pories: Protection Agenc	stings): : :y):	Substance is not I All ingredients are	isted
Section 313 (Specific TSCA (Toxic Substan Carcinogenic Categ EPA (Environmental	c toxic chemical li nces Control Act) jories: Protection Agenc Agency for Resea	stings): : :y): rch on Cancer):	Substance is not I All ingredients are Substance is not I	isted isted



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Canadian Don	nestic Substances List (DSL):	Substance is not listed		
Canadian Ingr	edient Disclosure list (limit 0.1%):	Substance is not listed		
Canadian Ingr	edient Disclosure list (limit 1%):	Substance is not listed		
16. OTHER INI	ORMATION			
		edge. However, this shall not constitute a nall not establish a legally valid contractual		
Prepared by:				
KEY				
ACGIH	American Conference of Gove	American Conference of Governmental Industrial Hygienists		
CAS	Chemical Abstracts Service			
DOT	Department of Transportation			
IARC	International Agency for Resea	arch on Cancer		
IMDG	International Maritime Danger	ous Goods		
MSHA	Mine Safety and Health Admin	istration		
NFPA	National Fire Protection Assoc	iation		
NIOSH	National Institute for Occupation	onal Safety and Health		
NTP	National Toxicology Program			
OSHA	Occupational Safety and Hea	Ith Administration		
	Permissble Exposure Limit			
PEL		Superfund Amendment and Reauthorization Act		
PEL SARA	Superfund Amendment and Re			
	Superfund Amendment and Re Threshold Limit Value			

DISCLAIMER:

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