Safety Data Sheet–Barite

Section1:ProductandCompanyIdentification

Product Identifier: Barite
Product Names: Barite, Baryte, Bar

Productuses: various industrial uses

Manufacturer:
Industrial Mineral Company
7268 Frasinetti Road
Sacramento, California95828

Emergency TelephoneNumber: 916-383-2811
Telephone NumberforInformation:916-383-2811

Section2: Hazards Identification

Carcinogen

Irritant (skin and eye)
Skin Sensitizer
Reparatory TrackIrritant

OSHA/HCSstatus: This naturally occurring clayiscon sideredhazardousbytheOSHAHazard Communication Standard (29 CFR 1910.1200)
Classification of the substance of mixture: OSHA –Carcinogenicity (inhalation) -Category 1A and Specific organ toxicity (Repeated Exposure) (Respiratory tract through inhalation) – Category 1
ExposurelimitsforCrystallineSilica:ThecurrentAmericanConferenceofGovernmentIndustrial Hygienist Threshold limit value for crystalline silica is: 0.1 mg/m^3
SignalWord: Danger
Hazard Statement Cancer Hazard. Contains quartz (crystalline silica) which may cause cancer. Risk of cancer depends upon duration and level of exposure to the dust. Not an acute hazard. Prolonged inhalationofdustmaycauselunginjury.Inhalationofhighconcentrationsofdustmaycausemechanical irritation and discomfort of the respiratory tract. Repeated exposure may have chronic effects. Can cause skin, respiratory, and eye irritation.
PrecautionaryStatement:Wearprotectivegloves,eye,andrespiratoryprotection.Avoidbreathing dust.

Section3:CompositionInformation

NaturalOccurringmineral,exactchemicalcompositionvaries.

ChemicalName	CommonName	CASNumber	%
Quartz(Silica)	SiO_2	14808-60-7	10-12
Barite	$BaSO_4$	13462-86-7	80-84
Mica/Illite	$(K,Na,Ca)(Al,Mg,Fe)_2(Si,Al)_4O_{10}(OH,F)_2$	12001-26-2	<6
Calcite	$CaCO_3$	13397-26-7	<2

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Section4:First-Aid Measures

EyeContact:Ifeyecontactoccurs,rinseimmediatelywithplentyofwater.Ifirritationpersists,seek medical attention
Skin Contact: Wash thoroughly with water. If irritation persists, seek medical attention
Inhalation:Movevictimtofreshairinwellventilatedarea.Ifcoughingorirritationpersists,seek medical attention
Ingestion: Consultphysicianand/orobtaincompetentmedical assistance

Section5FireFighting Measures

GeneralFireHazards:Notflammable
ExtinguishingMedia:Useappropriateextinguishingmediaforsurroundingfire
SpecialFireFightingProcedure: None

Section6:AccidentalRelease Measures

Clean-upMethods:Whendustisgenerateditmayoverexposecleanuppersonneltodust.Using respirators or wetting the material is recommended. When dry sweeping use NIOSH approved respirators when dust levels exceed exposure limits
PersonalPrecautionsandPersonalProtectiveEquipment:Wearappropriateprotectiveequipmentand clothing during clean-up. If dusty conditions exist use approved respirators.
EnvironmentalPrecautions:Materialisanaturalmineralproductandwillnotcauseadverseeffectsto the water system other than turbidity from suspended particles.

Section7:HandlingandStorage

HandlingProcedures:Weartheappropriateeyeprotectionandavoiddustcontactwitheyes.Minimize dust generation and accumulation. Wear the appropriate respiratory protection when in poorly ventilated areas. Use good industrial hygiene practices.

Section8:ExposureControls/PersonalProtection

AirborneExposureLimits:

Silicacomponentlimit
OSHA PEL:TWA10mg/m^3(respirable)
OSHAPEL :TWA30mg/m^3(totaldust)
CALOSHAPEL:TWA0.1mg/m^3(respirable)
CAL OSHAPEL:TWA0.3mg/m^3(totaldust)

EngineeringMeasures:Uselocalexhaustventilationtocontrolexposurebelowapplicablelimits
PersonalProtectiveEquipment(PPE):
Respiratory: Avoid actionsthat cause dust exposure to occur. Use localor general ventilationto control exposures below applicable exposure limits. NIOSH or MSHA approved particulate filter respirators shouldbeused.Respiratorand/orfiltercartridge selectionshouldbebasedontheANSIStandardZ88.2.

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Eyes:Whenworkingaroundactivitieswheredustcancontacttheeyes,wearsafetyglassesorgogglesto avoid eye irritation or injury. Wearing contacts without sealing goggles is not recommended.
SkinandBody:ProtectiveClothingisnotessential

Section9:PhysicalandChemical Properties

Appearance:Tantogrey **Physicalstate**: Powder **pH**: 8 **Melting/FreezingPoint**:nodataavailable **EvaporationRate**:NA **VaporPressure(mmHG)**:0(approximately) **Relativedensity**:NA **Solubility inwaterat100 C:**0(approximately) **Decompositiontemperature:**nodataavailable **Viscosity:**NA	**Odor:**none **Odorthreshold:**Nodata Available **Flashpoint:**NA **BoilingPoint:**NA **Flammability:**Not Flammable **VaporDensity**:NA **SpecificGravity**: 4.1 **Partitioncoefficient**:Nodataavailable **Auto-ignitiontemperature**:NA

Section10:StabilityandReactivity

Reactivity:Nodangerousreactionsareknownundernormalconditionsofuse
ChemicalStability:Stable
PossibilityofHazardousReactionsandConditionstoAvoid:None known
Incompatibility:NoneKnown

Section11:ToxicologicalInformation

PossibleHealthEffects:
TargetOrgans:Skin,Eyes,andRespiratorysystem
Exposure Routes: Inhalation, skin or eye contact
Symptoms:
ShortTerm:Shortnessofbreathand/orcoughingassociatedwithdustinhalation.
LongTermExposure(Chronic): Steadyandprolongedexposuretodustconcentrationshighthan LTV without approved respirator could cause silicosis, a chronic disease of the lungs marked by acute fibrosis, may cause cancer based on animal data.
EffectsofSilicosis
Bronchitis/chronicobstructivePulmonaryDisorder
Increased susceptibility to Tuberculosis
Scleroderma
PossibleRenal
SymptomsofSilicosis
Shortnessofbreath,feverfatigue,lossofappetite,chestpain,drynon-productivecough,respiratory failure, death.

OSHA,IARC,andNTPCarcinogenClassifications				
ChemicalswithrecognizedCarcinogen Potential	CAS#	OSHA	IARC	NTP

Quartz(Crystalline Silica)	14808-60-7	Yes	Yes–Group1	Yes

Section12:Ecological Information

Ecotoxicity: NoneKnown
Biochemicaloxygendemand(BOD5): Noneknown
Chemical oxygen demand (COD): None known
Products of Biodegradation: None known
Toxicityoftheproductsofbiodegradation: Noneknown
BioaccumulationPotential: Noneknown
Potentialtomovefromsoiltogroundwater:NoneKnow
Otheradverseeffects: Noneknown

Section13:DisposalConsiderations

PersonalProtection: Refertosection8forproperPPEwhendisposingofwastematerial
Appropriatedisposalcontainers: Nospecialrequirements
Appropriatedisposalmethods:Disposalofthisproductshouldcomplywiththerequirementsof environmental protection and waste disposal legislation and any regional or local authority requirements.
Physicalandchemicalpropertiesthatmayaffectdisposal:Dustshouldbeminimizedindisposalby either transporting in seal containers or wetting dust before transport
Sewagedisposal:donotdisposeofintosewagesystems,materialwillsettleoutofwaterandclogpipes.
Specialprecautionsforlandfillsorincinerationactivities: None

Section14:TransportInformation

Regulatory Information	UN Number	UNProper Shipping Name	Transport Hazard Class	Packing Group Number	Bulk Transport Guidance	Special Precautions
DOT Classification	Not Regulated	-	-	-	-	-
TDG Classification	Not Regulated	-	-	-	-	-
ADR/RID Class	Not Regulated	-	-	-	-	-
IMDGClass	Not Regulated	-	-	-	-	-
IATA-DGR Class	Not Regulated	-	-	-	-	-

Section15RegulatoryInformation

TSCA–ToxicSubstancesControlAct–EPA QuartzandotherchemicalsarelistedintheTSCAChemical Substance Inventory

CaliforniaProp.65WARNING: ThisproductcontainsachemicalknowntotheStateofCaliforniato cause cancer. (Prop. 65 – California Health and Safety Code Section 2549 Et Seq)
SARA/TitleIII(EmergencyPlanning&CommunityRight-to-KnowAct Thismixturecontainsno substances at or above the reporting threshold under section 313, based on available data.

Section16:OtherInformation

Definitions
ASTM –American System of Testing and Materials
OSHA–OccupationalSafety&HealthAdministration **IARC**
– International Agency for Research on Cancer **NTP –**
National Toxicogmail.com
HCS–HazardousCommunicationStandard
CAS–ChemicalAbstractService
ACGIH–AmericanConferenceofGovernmentalIndustrialHygienists
CAL-OSHA – California Occupational Safety & Health Administration
OSHA PEL – OSHA Permissible Exposure Levels
OSHA STEL-spot exposureforadurationof15minutes,whichcannotbe repeatedmorethan4times per day with at least 60 minutes between exposure periods.
TLV–ThresholdLimitValue
TWA–TimeWeighted Average
TLV-TWA–TimeweightedaverageThresholdlimitvalue
TLV-STEL–Shot-termexposurelimitThresholdlimitvalue
TLV-C–CeilingLimit–absolutelimitthatshouldnotbeexceededatanytime

Revisions:ExistingMSDSrevisedtonewGHSformat.RevisionDate08/31/2015

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