



PT. *BEHRINDOTAMA BUANA*

Supplier of Industrial & Specialty Chemicals

Komplek Rukan Puri Mutiara Blok A/30

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Material Safety Data Sheet

acc. to ISO/DIS 11014

1 Identification of substance

Product details

· Trade name: *Ultramarine Blue (all types)*

· Application of the substance / the preparation *Pigment*

2 Composition/Data on components

· Chemical characterization:

· CAS No. Description

57455-37-5 C.I. Pigment Blue 29

· Identification number(s) CAS-Nr. 101357-30-6; "Silicic acid, aluminum sodium salt, sulfurized"

· EINECS Number: 309-928-3

3 Hazards identification

· Hazard description: *Not applicable.*

· Information pertaining to particular dangers for man and environment: *Not applicable.*

· Classification system:

· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)



GHS label elements

Warning

3.1/5 - *May be harmful if swallowed.*

· Response:

Call a *POISON CENTER* or doctor/physician if you feel unwell.

4 First aid measures

· General information: *No special measures required.*

· After inhalation: *Supply fresh air; consult doctor in case of complaints.*

· After skin contact: *Immediately rinse with water.*

· After eye contact: *Rinse opened eye for several minutes under running water.*

· After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

5 Fire fighting measures

· Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: Water with full jet

· Protective equipment: Wear self-contained respiratory protective device.

· Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations

6 Accidental release measures

· Person-related safety precautions:

Ensure adequate ventilation

Avoid formation of dust.

Wear protective clothing.

· Measures for environmental protection: Do not allow product to reach sewage system or any water course.

· Measures for cleaning/collecting: Pick up mechanically.

· Additional information:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Handling:

· Information for safe handling:

Prevent formation of dust.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

· Information about protection against explosions and fires: No special measures required.

· Storage:

· Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility: Do not store together with acids.

· Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Components with limit values that require monitoring at the workplace: Not required.

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

· Personal protective equipment:

· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Do not inhale dust / smoke / mist.

Do not eat, drink, smoke or sniff while working.

Avoid contact with the eyes.

Breathing equipment: *Suitable respiratory protective device recommended.*

(Contd. on page 3)

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

Body protection: *Protective work clothing*

9 Physical and chemical properties

General Information

Form: *Powder*

Color: *Blue*

Odor: *Characteristic*

Change in condition

Melting point/Melting range: *Undetermined.*

Boiling point/Boiling range: *Undetermined.*

Flash point: *Not applicable.*

Flammability (solid, gaseous): *Product is not flammable.*

Ignition temperature:

Decomposition temperature: *>400°C (>752°F)*

Danger of explosion: *Product does not present an explosion hazard.*

Density at 20°C (68°F): *ca. 2.5 g/cm³*

Solubility in / Miscibility with

Water: Insoluble.

pH-value at 20°C (68°F): 6 - 9 (ISO 787/9)

Organic solvents: 0.0 %

Solids content: 100.0 %

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

To avoid thermal decomposition do not overheat.

Dangerous reactions Contact with acids releases toxic gases.

Dangerous products of decomposition:

Sulfur dioxide

Hydrogen sulfide

11 Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification:

57455-37-5 C.I. Pigment Blue 29

Oral LD50 > 5000 mg/kg (rat)

Primary irritant effect:

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

12 Ecological information

General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water

13 Disposal considerations

Product:

Recommendation: Disposal must be made according to official regulations.

Uncleaned packagings:

Recommendation:

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

DOT regulations:

Hazard class: -

Land transport ADR/RID (cross-border):

ADR/RID class: -

Maritime transport IMDG:

-
- **IMDG Class:** -
 - **Marine pollutant:** No
 - **Air transport ICAO-TI and IATA-DGR:**
 - **ICAO/IATA Class:** -
 - **UN "Model Regulation":** -
 - **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulations

- **Sara**
- **Section 355 (extremely hazardous substances):**
Substance is not listed.
- **Section 313 (Specific toxic chemical listings):**
Substance is not listed.
- **TSCA (Toxic Substances Control Act):**
Substance is listed.
- **Proposition 65**
- **Chemicals known to cause cancer:**
Substance is not listed.
- **Chemicals known to cause reproductive toxicity for females:**
Substance is not listed.
- **Chemicals known to cause reproductive toxicity for males:**
Substance is not listed.
- **Chemicals known to cause developmental toxicity:**
Substance is not listed.
- **Carcinogen categories**
- **EPA (Environmental Protection Agency)**
Substance is not listed.
- **IARC (International Agency for Research on Cancer)**
Substance is not listed.
- **NTP (National Toxicology Program)**
Substance is not listed.
- **TLV (Threshold Limit Value established by ACGIH)**
Substance is not listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
Substance is not listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**
Substance is not listed.
- **Product related hazard informations:**
Observe the general safety regulations when handling chemicals.
The substance is not subject to classification according to the sources of literature known to us.
- **Safety phrases:**
Keep away from acids.
Do not empty into drains.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing MSDS: research and development

· Contact: Dr. Kevin Ma

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

LATA: International Air Transport Association

LATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (LATA)

ICAO: International Civil Aviation Organization

ICAO-II: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMTS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent