

CERTIFICATES OF ANALYSIS/MATERIAL SAFETY DATA SHEETS COLOUR-PIGMENTS
ANALYSES/VEILIGHEIDSINFORMATIEBLADEN KLEURSTOFFEN

This file encloses the Certificates of Analysis and Material Safety Data Sheets

Of all colour-pigments being processed in following Superstar-products:

Dit dossier omvat alle analyses en veiligheidsinformatiebladen (MSDS) van
de kleurstoffen die worden verwerkt in de volgende Superstar-produkten:

139-03

139-04

139-05

139-05.1

139-05.2

139-06

139-06.2

139-06.3

139-07

139-15

139-16

139-23

139-49

139-63

139-84

139-85

139-89

139-97

C.I. 77007

ANALYSIS

RESULT SPECIFICATION

| | | |
|-----------------|----------|-------------|
| Lead (as Pb) | < 20 ppm | 20 ppm max. |
| Arsenic (as As) | < 3 ppm | 3 ppm max. |
| Mercury (as Hg) | < 1 ppm | 1 ppm max. |

COMMENTS

Material has been subjected to gamma irradiation treatment at a dosage rate of 10 kGy.

DATE OF MANUFACTURE: July 2009

This document is computer generated and carries no signature.

Chemical Characterisation : Pigment Blue 29 - C.I. 77007

2. COMPOSITION / INFORMATION ON INGREDIENTS

Contains : Sodium aluminosulphosilicate
CAS Number : 57455-37-5
FDA Description : Ultramarine
Japan Reference : Ultramarine
Common Name : Ultramarine

EU Number :
EU Reference : Annex IV Pt 1
EINECS : 3-099-283

3. HAZARDS IDENTIFICATION

Ultramarine is not classified as dangerous and presents no environmental hazard. This product should be treated as a nuisance dust under normal conditions of use. In contact with acids, it liberates hydrogen sulphide, a highly flammable, toxic gas.

4. FIRST AID MEASURES

Eye Contact : Irrigate with clean water.
Inhalation : Remove to fresh air.
Skin Contact : Wash with mild soap and warm water.
Ingestion : If large quantities are ingested, drink copious amounts of water to induce vomiting.

5. FIRE FIGHTING MEASURES

Extinguishing Media :

| | |
|--|---|
| <input checked="" type="checkbox"/> water mist | <input checked="" type="checkbox"/> CO ₂ |
| <input checked="" type="checkbox"/> foam | <input checked="" type="checkbox"/> dry powder |

Special Exposure Hazards : If involved in a fire, sulphur dioxide gas will be released. Fire-fighters should wear suitable breathing apparatus.
Special Fire Fighting Precautions : If involved in a fire, sulphur dioxide gas will be released. Fire-fighters should wear suitable breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection : See section 8.
Disposal Considerations : See section 8.
Measures for Containing Spillage : No special precautions unless fire involved - see section 5.
Measures for Cleaning up Spillage : Sweep or vacuum up spillage. Avoid contact with acids.
Any Environmental Precautions : Do not flush down drains. In case of major discharge, flush with copious amounts of water to dilute any acid conditions that may prevail.

7. HANDLING AND STORAGE

Handling : See section 8.
Storage : Store at room temperature (15-25°C recommended) in original resealed containers and protected from direct sunlight and moisture.
Incompatible Materials : Acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

When handling dry powder local exhaust ventilation (LEV) is essential to minimise worker exposure. UK limits (long term total dust and respirable dust) on exposure are published annually in Guidance Note EH40, Health & Safety Executive.

Other Protective Measures :

| | |
|---|--|
| <input type="checkbox"/> self contained breathing apparatus | <input checked="" type="checkbox"/> plastic gloves, overalls |
| <input checked="" type="checkbox"/> goggles | <input type="checkbox"/> |

Continued page 2

Dry, fine powders can remove the skin's natural oils, leaving it cracked and dry and open to infection. Workers should be encouraged to use skin moisturisers.

9. **PHYSICAL & CHEMICAL PROPERTIES**

Melting / Softening Point : °C
Density : 2.35 g.cm⁻³
Bulk Density : 400 kg.m⁻³
Solubility in Water : Insoluble in water and organic solvents.
pH (at 50 g.l⁻¹ water) : 6 - 9
Odour : None (sulphurous).
Physical Form : Powder.
Flash Point : Not applicable.
Thermal Decomposition : 400°C (loss of sulphur)
Auto Ignition : Not applicable.

10. **STABILITY AND REACTIVITY**

Stability : Stable up to approx. 350°C.
Substances to be avoided : Acids liberate hydrogen sulphide.
Hazardous Decomposition Products : H₂S, SO₂
Hazardous Exothermic Reaction : Above 400°C exothermic evolution of sulphur dioxide.

11. **TOXICOLOGICAL INFORMATION**

General Comments : Non toxic. LD₅₀ Mice and Rats > 10000 mg/kg
After Skin Contact :
After Eye Contact :
After Ingestion :
After Inhalation :
Further Data :

12. **ECOLOGICAL INFORMATION**

General Comments : Presents no ecological hazard if disposed of responsibly. EC₅₀ / LC₅₀ > 32000 mg/l.
Bacteriological Toxicity :
Fish Toxicity :
Biodegradability :

13. **DISPOSAL CONSIDERATIONS**

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Empty containers should be cleaned out before disposal or recycling.

14. **TRANSPORT INFORMATION** Not classified as dangerous substances for supply under international regulations. Do not transport with acids.

UN Number :
IMO :
IATA :

IMDG Class :
Packaging Group :
ADR (Road)/RID :

15. **REGULATORY INFORMATION**

EEC Directives :

Symbol :
R-phrases :
S-phrases : S14 - Keep away from acids.
S29 - Do not empty into drains.

Dust : Long term total dust : 10 mg.m⁻³ - 8hr TWA
Respirable dust : 5 mg/m⁻³ - 8 hr TWA

Word :

16. **OTHER INFORMATION**

Source Information :