

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



63043 Gelatine Ballistic 3

Page 1

Revised edition: 01.12.2021

Version: 3

Printed: 09.08.2023

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Gelatine Ballistic 3

Article No.: 63043

UFI: --

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:
Foodstuff, pharmaceutical and technical applications

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

E-Mail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

This product does not require classification and labelling as hazardous according to CLP/GHS.

Possible Environmental Effects:

2.2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

This product does not require classification and labelling as hazardous according to CLP/GHS.

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

Safety designation:

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

next page: 2

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



63043 Gelatine Ballistic 3

Page 2

Revised edition: 01.12.2021

Version: 3

Printed: 09.08.2023

3.1. Substance

3.2. Mixture

Chemical Characterization:

Information on Components / Hazardous Ingredients:

Gelatine	100 %	CAS-Nr: 9000-70-8 EINECS-Nr: 232-554-6 EC-Nr:
----------	-------	---

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

No special measures required.

After inhalation:

Supply fresh air.

In case of complaints consult a physician.

After skin contact:

Wash with soap and rinse with plenty of water.

After eye contact:

Remove contact lens.

Rinse open eye for several minutes under running water. Should irritation continue, seek medical advice.

After ingestion:

Rinse mouth with plenty of water.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

None known.

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

No information available.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Use extinguishing media for surrounding fire.

Foam, carbon dioxide (CO₂), extinguishing powder, water spray.

Unsuitable extinguishing media:

None known.

next page: 3

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



63043 Gelatine Ballistic 3

Page 3

Revised edition: 01.12.2021

Version: 3

Printed: 09.08.2023

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: formation of carbon oxides, nitrogen oxides.

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device and full protective gear.

Further information:

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

*Avoid contact with skin, eyes and clothing.
Floor may be slippery; use care to avoid falling.*

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

*Take up mechanically and collect in suitable container for disposal.
Rinse spill area. Avoid dust formation.*

6.4. Reference to other Sections

Dispose of contaminated material according to Section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

*The usual precautionary measures are to be adhered to when handling chemicals.
Avoid contact with eyes, skin and clothing.*

Hygienic measures:

Do not eat or drink during work. Do not smoke.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

*Store in tightly sealed containers in a dry and cool room.
Protect against heat and direct sunlight.
Do not store near strong oxidants or substances which emit aldehydes.*

Requirements for storage areas and containers:

Close open containers with care and store in an upright position to avoid spilling.

Information on fire and explosion protection:

Keep away from combustible substances, open flames and heat

next page: 4

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



63043 Gelatine Ballistic 3

Page 4

Revised edition: 01.12.2021

Version: 3

Printed: 09.08.2023

sources.

Dust may form an explosive mixture with air.

Take measures to prevent electrostatic discharge.

Storage class:

11; Combustible solids (TRGS 510)

Further Information:

Do not store together with chemical products and aromas.

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

No occupational exposure limits known.

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation/exhaust system.

Personal Protection

General protective measures:

Wear adequate protective clothing.

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory protection:

Dust mask recommended when very dusty (with particle filter P1).

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

Not regarded as dangerous for the environment.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form:

powder

next page: 5

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



63043 Gelatine Ballistic 3

Page 5

Revised edition: 01.12.2021

Version: 3

Printed: 09.08.2023

<i>Color:</i>	<i>white to slightly yellow</i>
<i>Odor:</i>	<i>weak</i>
<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	<i>4 - 7 (6.67 %; 60°C)</i>
<i>Melting temperature:</i>	<i>Decomposes without melting (OECD 102)</i>
<i>Boiling temperature:</i>	<i>not applicable</i>
<i>Flash point:</i>	<i>not available</i>
<i>Evaporation rate:</i>	<i>not applicable</i>
<i>Flammability (solid, gas):</i>	<i>not available</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not available</i>
<i>Vapor density:</i>	<i>not applicable</i>
<i>Density:</i>	<i>not available</i>
<i>Solubility in water:</i>	<i>Soluble in warm water Swells in cold water.</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>no information available</i>
<i>Auto-ignition temperature:</i>	<i>No information available.</i>
<i>Decomposition temperature:</i>	<i>No data available.</i>
<i>Viscosity, dynamic:</i>	<i>< 11 mPa.s (6.67 %; 60°C)</i>
<i>Explosive properties:</i>	<i>Explosion class St1 for fine particles (< 70 µm), non-explosive for larger particles.</i>
<i>Oxidizing properties:</i>	<i>none</i>

next page: 6

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



63043 Gelatine Ballistic 3

Page 6

Revised edition: 01.12.2021

Version: 3

Printed: 09.08.2023

Bulk density: 450 - 750 g/l

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

Minimum ignition energy: > 10 mJ for fine particle (35 µm) up to not ignitable for larger particles.

Ignition temperature: 480°C for fine particles (35 µm) up to no ignition, up to 850°C for medium particle size (1550 µm).

Smoldering temperature: No glow for medium particle size 65 µm.

Flammability: combustible material. BZ 2 for fine particles (< 100 µm)

Dust Explosion Data: Gelatine (Chilworth Technology Ltd.)

Example parameter: 9 % humidity

Particle size: 10 % smaller than 47 µm; 50 % smaller than 143 µm; 90 % smaller than 623 µm

Dust Explosion Risk: Data determined with the fraction < 63 µm

Maximum explosion pressure: 6.4 bar g

Maximum pressure increase: 310 bar/s

K(st) Value: 84 bar.m/s

Dust explosion class: ST1 (low explosions hazard potential)

Minimum ignition energy: > 500 mJ

Minimum ignition temperature: 700°C

Minimum explosion concentration: 105 g/cm³

Thermal Stability:

Ignition temperature of a layer (5 mm): > 400°C

10. Stability and Reactivity

10.1. Reactivity

This product is sensitive to moisture and absorbs odors. Product reacts with aldehydes.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

None if handled and stored according to specifications.

Formation of hazardous decomposition products possible at increased temperatures.

10.4. Conditions to Avoid

Conditions to avoid:

Do not store near strongly smelling materials and avoid humidity.

Thermal decomposition:

next page: 7

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



63043 Gelatine Ballistic 3

Page 7

Revised edition: 01.12.2021

Version: 3

Printed: 09.08.2023

10.5. Incompatible Materials

Strong oxidizing agents.

Humidity

10.6. Hazardous Decomposition Products

Formation of carbon oxide, carbon dioxide and nitrogen oxides at high temperatures.

10.7. Further Information

11. Toxicological Information

11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

No toxicity expected.

Acute Toxicity

LD50, oral:

LD50, dermal:

LC50, inhalation:

Primary effects

Irritant effect on skin:

No irritant effect known.

Irritant effect on eyes:

No irritant effect known.

Inhalation:

No irritant effect known.

Ingestion:

No irritant effect known.

Sensitization:

No sensitizing effects known.

Mutagenicity:

No mutagenic effects known.

Reproductive toxicity:

No negative effects known.

Carcinogenicity:

No negative effects.

Teratogenicity:

No teratogenic effects expected.

Specific target organ toxicity (STOT):

Repeated exposure: no organospecific toxicity expected.

Single exposure: no organospecific toxicity expected.

Aspiration hazard:

No risk of aspiration.

11.2. Information on other Hazards

Eye contact: dust particles can cause mechanical irritation.

Inhalation: Repeated or prolonged inhalation of dust can cause

next page: 8

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



63043 Gelatine Ballistic 3

Page 8

Revised edition: 01.12.2021

Version: 3

Printed: 09.08.2023

irritation of the respiratory tract.

12. Ecological Information

12.1. Aquatic Toxicity

No toxicity expected.

Fish toxicity:

Daphnia toxicity:

Bacteria toxicity:

Algae toxicity:

12.2. Persistency and Degradability

Readily biodegradable.

12.3. Bioaccumulation

No information available.

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

Not classified as PBT substance / Not classified as a vPvB substance.

12.6. Endocrine Disrupting Properties

Not listed.

12.7. Other Adverse Effects

Water hazard class:

1, slightly hazardous (German Regulation; Self-assessment).

Behaviour in sewage systems:

Further ecological effects:

Do not let product contaminate ground water, waterways or sewage system.

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

In accordance with current regulations, product may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.

European Waste Code (EWC):

Uncleaned packaging:

Dispose of according to official local regulations.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

next page: 9

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



63043 Gelatine Ballistic 3

Page 9

Revised edition: 01.12.2021

Version: 3

Printed: 09.08.2023

14.2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR / DOT (US) (land transportation).

IMDG/IATA:

Not hazardous goods

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

not applicable

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14.5. Environmental Hazards

no

14.6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14.7. Maritime Transport in Bulk according to IMO Instruments

14.8. Further Information

15. Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

1, slightly hazardous for water (German Regulation, Assessment by list)

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

next page: 10

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



63043 Gelatine Ballistic 3

Page 10

Revised edition: 01.12.2021

Version: 3

Printed: 09.08.2023

15.2. Chemical Safety Assessment

EC SVHC-List: This product does not contain a substance in the candidate list for substances of very high concern above the legal limit value (> 0.1 % (w/w) REACH Regulation (EC) 1907/2006, Article 57).

A Chemical Safety Assessment has not been carried out for this product.

15.3. Further Information

This product is not a ozone-depleting substance (EC Reg. 2037/2000) and not a persistent organic pollutant (POP) (EC Reg. 850/2004).

Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Not applicable

Regulation (EC) 648/2004 on detergents: not regulated / not applicable

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.