SAFETY DATA SHEET

KM Demeril Blau

This safety data sheet complies with the requirements of:
Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008

SDS # : KMDB-EU-A
Revision date: 2020-03-09
Format: EU
Version 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Code(s) KMDB-EU-A

Product Name KM Demeril Blau

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: Pigment powder for seed treatment of substances

Restrictions on Use: Mixture on customer's request

Reason why uses advised against No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Supplier

Cheminova Deutschland GmbH & Co. KG
Stader Elbstrasse 28
21683 Stade
Germany
Tel: +49 (0) 4141 9204 0
Fax: +49 (0) 4141 9204 210
datenblatt@fmc.com
www.cheminova.de

For further information, please contact:

Contact point

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21683 Stade
Germany
Tel: +49 (0) 4141 9204 0
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1.4. Emergency telephone number

Emergency telephone Tel.: +49 (0)551 19240 (GIZ-Nord Poisons Centre, Göttingen, Germany) (24 h)
"Member of EPECS Network"

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture *Regulation (EC) No 1272/2008*

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard symbol not required.

2.2. Label elements

Hazard pictograms
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard symbol not required.
Signal Word
None, Not classified

Hazard Statements
EUH401: Follow the instructions for use to avoid risks to human health and the environment.

2.3. Other hazards
This product is not identified as a PBT/vPvB substance.

Avoid any inhalation of the dust with adequate measures (good ventilation or respiratory mask); Pneumoconiosis a silicosis-like respiratory disorder (pulmonary talcosis) might occur.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

The product is a mixture, not a substance.

3.2 Mixtures

Chemical nature
Pigment powder for seed treatment of substances listed below with nonhazardous additions.

Chemical name	EC-No	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
talc	238-877-9	14807-96-6	<80	Not classified	No data available
Titanium dioxide	236-675-5	13463-67-7	<15	Not classified	01-2119489379-17-XXXX
Mica	310-127-6	12001-26-2	<15	Not classified	No data available

All substances listed above have a Community workplace exposure limit

Additional Information
For the full text of the H- and EUH- phrases mentioned in this Section, see Section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice Take off contaminated clothing.

Eye Contact Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin Contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

Inhalation Move to fresh air. Call a poison control center or doctor for further treatment advice.

Ingestion It may be helpful to show this safety data sheet to physician. Clean mouth with water. Do not swallow. Do NOT induce vomiting. Immediate medical attention is required.

4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms and None known.

effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

Indication of immediate medical attention and special treatment needed, if necessary	There is no specific antidote against this substance. Gastric lavage and/or administration of activated charcoal can be considered. After decontamination, treatment is supportive and symptomatic as for a general chemical.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Small Fire	Dry chemical. Carbon dioxide (CO_2).
Large Fire	Water spray. Foam.

Unsuitable extinguishing media
Avoid heavy hose streams.

5.2. Special hazards arising from the substance or mixture
Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products	Carbon monoxide. Carbon dioxide (CO_2). Nitrogen oxides (NOx).

5.3. Advice for firefighters
Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Dike area to prevent water runoff. Firemen should wear self-contained breathing apparatus and protective clothing.

In the event of fire and/or explosion, do not breathe fumes

Prevent fire extinguishing water from contaminating surface water or the groundwater system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions
Wear personal protective equipment. In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. Ensure adequate ventilation. Avoid dust formation. May form combustible dust concentrations in air. Remove all sources of ignition.

For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

For emergency responders
Use personal protection recommended in Section 8.

6.2. Environmental precautions
Keep people and animals away from and upwind of spill/leak. Keep material out of lakes,streams, ponds, and sewer drains. Keep out of waterways.

6.3. Methods and material for containment and cleaning up

Methods for Containment	Clean area with detergent and plenty of water. If appropriate, surface water drains should be covered. Minor spills on the floor or other impervious surface should be absorbed onto

an absorptive material such as universal binder, attapulgite, bentonite or other absorbent clays. Collect the contaminated absorbent in suitable containers. Clean area with much water and industrial detergent. Absorb wash liquid onto absorbent and transfer to suitable containers. The used containers should be properly closed and labelled.

Methods for cleaning up Pick up and transfer to properly labeled containers.

6.4. Reference to other sections

See Section 7 for more information.
See Section 8 "Exposure Controls/Personal Protection" for specific details.
See section 13 for disposal information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling
Use personal protective equipment. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Ensure adequate ventilation. Keep away from heat, sparks and open flame. No smoking.

Like most organic powders, the substance can form explosive mixtures with air. Avoid dust formation and take precautionary measures against static discharge. Use explosion protected equipment. Keep away from sources of ignition and protect from exposure to fire and heat.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage
Keep container tightly closed in a dry and well-ventilated place. Keep away from food, drink and animal feedingstuffs. Incompatible with oxidizing agents. Protect from frost, heat and sunlight. Keep out of reach of children and animals. Avoid contact with water or humidity.

Store at 0 - 35°C.

Storage class: 11 (TRGS 510): Combustible solids
Restriction for joint storage must be observed (according to TRGS 510).

Packaging material Must only be kept in original packaging.

7.3. Specific end use(s)

Specific Use(s)
See information supplied by the manufacturer for the identified uses.

Risk Management Methods (RMM)
The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Chemical name	European Union	The United Kingdom	France	Spain	Germany
talc 14807-96-6	-	STEL 3 mg/m ^{3} TWA 1 mg/m ^{3}	-	TWA 2 mg/m ^{3}	-
Titanium dioxide 13463-67-7	-	STEL 30 mg/m ^{3} STEL 12 mg/m ^{3} TWA 10 mg/m ^{3} TWA 4 mg/m ^{3}	TWA 10 mg/m ^{3}	TWA 10 mg/m ^{3}	-
Mica 12001-26-2	-	STEL 30 mg/m ^{3} STEL 2.4 mg/m ^{3}	-	TWA 3 mg/m ^{3}	-

		TWA 10 mg/m ^{3} TWA 0.8 mg/m ^{3}			
Chemical name	**Italy**	**Portugal**	**The Netherlands**	**Finland**	**Denmark**
talc 14807-96-6	-	TWA 2 mg/m ^{3} C(A4)	TWA 0.25 mg/m ^{3}	TWA 0.5 fiber/cm3 STEL 2 ppm STEL 1 ppm	TWA 0.3 fiber/cm3
Titanium dioxide 13463-67-7	-	TWA 10 mg/m ^{3} C(A4)	-	-	TWA 6 mg/m ^{3}
Mica 12001-26-2	-	TWA 3 mg/m ^{3}	-	-	-
Chemical name	**Austria**	**Switzerland**	**Poland**	**Norway**	**Ireland**
talc 14807-96-6	TWA 2 mg/m ^{3}	SS-C** TWA 2 mg/m ^{3}	TWA 4 mg/m ^{3} TWA 1 mg/m ^{3}	TWA 6 mg/m ^{3} TWA 2 mg/m ^{3} STEL 12 mg/m ^{3} STEL 4 mg/m ^{3}	TWA 10 mg/m ^{3} TWA 0.8 mg/m ^{3} STEL 30 mg/m ^{3} STEL 2.4 mg/m ^{3}
Titanium dioxide 13463-67-7	STEL 10 mg/m ^{3} TWA 5 mg/m ^{3}	SS-C** TWA 3 mg/m ^{3}	TWA 10 mg/m ^{3}	TWA 5 mg/m ^{3} STEL 10 mg/m ^{3}	TWA 10 mg/m ^{3} TWA 4 mg/m ^{3} STEL 30 mg/m ^{3} STEL 12 mg/m ^{3}
Mica 12001-26-2	TWA 10 mg/m ^{3}	TWA 3 mg/m ^{3}	-	TWA 6 mg/m ^{3} TWA 3 mg/m ^{3} STEL 12 mg/m ^{3} STEL 6 mg/m ^{3}	TWA 3 mg/m ^{3} STEL 9 mg/m ^{3}

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering measures Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment. Avoid dust formation.

Personal protective equipment

Eye/Face Protection Tightly fitting safety goggles. Chemical goggles consistent with EN 166 or equivalent.

Hand Protection The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. For example, use protective gloves (EN 374, EN 388, EN 420)

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics.

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Choose chemical resistant gloves. Recommend are gloves made of: Nitrile, recommended thickness of the material: ≥ 0.11 mm.

Penetration time of glove material
Penetration time 480 minutes (Permeation according to EN 374 Part 3: Level 6) e.g. for Dermatril®. If other glove materials or protective gloves of other manufacturers are used, than the exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Skin and Body Protection Wear suitable protective clothing. Protective shoes or boots. Protective suit against pesticides (DIN 32781) is recommended when handling the product.

Respiratory Protection In case of insufficient ventilation:.
Respiratory single serving mask DIN EN 149 with filter FFP2.

Environmental exposure controls Do not release to the environment.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Solid
Appearance	Free flowing powder
Odor	Odorless
Color	Blue
Odor threshold	No information available
pH	No information available
Melting point/freezing point	No information available
Boiling Point/Range	No information available
Flash point	
Evaporation Rate	No information available
Flammability (solid, gas)	
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific gravity	No information available
Water solubility	Insoluble in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	Product is not explosive, but the formation of explosive dust air mixtures are possible
Oxidizing properties	No information available

9.2. Other information

Softening point	No information available
Molecular weight	No information available
VOC content (%)	No information available
Relative density	No information available
Bulk density	300 - 450 kg/m^3
K_{st}	No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended storage conditions

10.2. Chemical stability

Stable under recommended storage conditions.

Explosion data

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge Static electricity might be sufficient to ignite dust clouds. Possibility of ignition will depend on the minimum ignition energy (MIE) and the type of operations undertaken with the material. MIE values are not provided in this SDS.

10.3. Possibility of hazardous reactions

Hazardous polymerization
Hazardous polymerization does not occur.

Hazardous reactions
None under normal processing. As the product is supplied it is not capable of dust explosion; however enrichment with fine dust may causes risk of dust explosion. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

10.4. Conditions to avoid

Excessive heat. Dust formation.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

None under normal use. See Section 5 for more information.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information
Product does not present an acute toxicity hazard based on known information.

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met. Product dust may cause mechanical eye irritation.
Sensitization	Based on available data, the classification criteria are not met
Mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met. The inhalation of dusts may cause pneumoconiosis, a silicosis-like respiratory disorder (pulmonarytalcosis).
Aspiration hazard	Based on available data, the classification criteria are not met.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

There are no data available for this product. The environmental impact of this product has not been fully investigated.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Avoid release to the environment

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.
Contaminated containers and packages	Do not re-use empty containers. Dispose of in accordance with local regulations.

Section 14: TRANSPORT INFORMATION

NOTE	NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

IMDG/IMO

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Marine Pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

RID

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None

ADR/RID

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None

ICAO/IATA

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated

14.4 Packing Group Not regulated
14.5 Environmental Hazard Not applicable
14.6 Special Provisions None

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.

Young people under the age of 18 are not allowed to work with the substance.

German Water Hazard Class: 1 - Low Hazard To Waters

European Union

Authorizations and/or restrictions on use:
This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants
Not Applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not Applicable

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
talc 14807-96-6	X	X	X	X	X	X	X	X
Titanium dioxide 13463-67-7	X	X	X	X	X	X	X	X
Mica 12001-26-2		X			X	X	X	X

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: CAS (Chemical Abstracts Service)
Ceiling: Maximum limit value:
DNEL: Derived No Effect Level (DNEL)
EINECS: EINECS (European Inventory of Existing Chemical Substances)
GHS: Globally Harmonized System (GHS)
IATA: International Air Transport Association (IATA)

ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Dangerous Goods (IMDG)
LC50:	LC50 (lethal concentration)
LD50:	LD50 (lethal dose)
PBT:	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STEL:	Short term exposure limit
SVHC	SVHC: Substances of Very High Concern for Authorization:
TWA:	time weighted average
vPvB:	very Persistent and very Bioaccumulative

Key literature references and sources for data
Data measured on the product are unpublished company data. Data on ingredients are available from published literature and can be found several places.

Revision date:	2020-03-09
Reason for revision:	Format Change.
Training Advice	This material should only be used by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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End of Safety Data Sheet