

SYMIC C393

Version 1.0 Revision Date: 03/21/2018 SDS Number: 102000022309 Date of last issue: -
Date of first issue: 03/21/2018

SECTION 1. IDENTIFICATION

Product name : SYMIC C393

Product code : 021019MJ0

Manufacturer or supplier's details

Company name of supplier : ECKART GmbH

Address : Guentersthal 4
Hartenstein 91235

Telephone : +499152770

Telefax : +499152777008

Emergency telephone : CHEMTREC: 800-424-9300
CHEMTREC: 1-703-527-3387 (International)

GBK Gefahrgut Buero GmbH, Ingelheim, Germany:
From outside US: (001) 352-323-3500
(First call in English, response in your language is possible)
US & Canada (toll free):1-800-5355-053

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with 29 CFR 1910.1200**

Combustible dust

GHS label elements

Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
Titanium oxide (TiO ₂)	13463-67-7	>= 50 - < 70

SYMIC C393

Version Revision Date: SDS Number: Date of last issue: -
 1.0 03/21/2018 102000022309 Date of first issue: 03/21/2018

Fluorophlogopite (Mg ₃ K[AlF ₂ O(SiO ₃) ₃])	12003-38-2	>= 30 - < 50
Iron oxide (Fe ₂ O ₃)	1309-37-1	>= 5 - < 10

SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

If inhaled : If unconscious, place in recovery position and seek medical advice.
 If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water.

In case of eye contact : Remove contact lenses.
 If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
 Do not give milk or alcoholic beverages.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : None known.

SECTION 5. FIRE-FIGHTING MEASURES

Further information : Standard procedure for chemical fires.
 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid dust formation.

Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.
 Sweep up and shovel.
 Keep in suitable, closed containers for disposal.

SYMIC C393

Version 1.0 Revision Date: 03/21/2018 SDS Number: 102000022309 Date of last issue: -
 Date of first issue: 03/21/2018

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
- Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : No materials to be especially mentioned.
- Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Titanium oxide (TiO ₂)	13463-67-7	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m ³	OSHA Z-3
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (Total dust)	10 mg/m ³	OSHA P0
		TWA	10 mg/m ³ (Titanium dioxide)	ACGIH
Fluorophlogopite (Mg ₃ K[AlF ₂ O(SiO ₃) ₃])	12003-38-2	TWA	2.5 mg/m ³ (Fluorine)	OSHA Z-1
		TWA	2.5 mg/m ³	OSHA Z-1

SYMIC C393

Version 1.0 Revision Date: 03/21/2018 SDS Number: 102000022309 Date of last issue: -
 Date of first issue: 03/21/2018

			(Fluorine)	
		TWA	2.5 mg/m ³ (Fluorine)	ACGIH
		TWA	2.5 mg/m ³ (Fluorine)	ACGIH
		TWA (Respirable fraction)	1 mg/m ³ (Aluminum)	ACGIH
		TWA	2.5 mg/m ³ (Fluorine)	OSHA P0
		TWA	2.5 mg/m ³ (Fluorine)	OSHA P0
Iron oxide (Fe ₂ O ₃)	1309-37-1	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m ³	OSHA Z-3
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable fraction)	5 mg/m ³	ACGIH
		TWA (Fumes)	10 mg/m ³	OSHA Z-1
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (dust and fume)	5 mg/m ³ (Iron)	NIOSH REL
		TWA (Fumes)	10 mg/m ³	OSHA P0

Biological occupational exposure limits

Ingredients	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Fluorophlogopite (Mg ₃ K[AlF ₂ O(SiO ₃) ₃])	12003-38-2	Fluoride	Urine	Prior to shift (16 hours after	3 mg/g	ACGIH BEI

SYMIC C393

Version 1.0 Revision Date: 03/21/2018 SDS Number: 102000022309 Date of last issue: -
 Date of first issue: 03/21/2018

				exposure ceases)		
		Fluoride	Urine	End of shift (As soon as possible after exposure ceases)	10 mg/g	ACGIH BEI
		Fluoride (Fluorine)	Urine	Prior to shift (16 hours after exposure ceases)	2 mg/l	ACGIH BEI
		Fluoride (Fluorine)	Urine	End of shift (As soon as possible after exposure ceases)	3 mg/l	ACGIH BEI

Personal protective equipment

Eye protection : Safety glasses

Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid
 Color : No data available
 Odor : characteristic
 Odor Threshold : No data available
 pH : No data available
 Melting point/freezing point : No data available
 Initial boiling point and boiling range : No data available
 Flash point : No data available
 Evaporation rate : No data available
 Flammability (solid, gas) : Will not burn

combustible dust

SYMIC C393

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000022309	Date of first issue: 03/21/2018

Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Solubility(ies)	:	
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	No data available

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified based on available information.

Ingredients:**Titanium oxide (TiO₂):**

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 6.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

SYMIC C393

Version 1.0 Revision Date: 03/21/2018 SDS Number: 102000022309 Date of last issue: -
Date of first issue: 03/21/2018

Respiratory or skin sensitization**Skin sensitization**

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC

Group 2B: Possibly carcinogenic to humans

Titanium oxide (TiO₂) 13463-67-7

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information**Ingredients:****Fluorophlogopite (Mg₃K[AlF₂O(SiO₃)₃]):**

Remarks: No data available

SYMIC C393

Version Revision Date: SDS Number: Date of last issue: -
1.0 03/21/2018 102000022309 Date of first issue: 03/21/2018

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Other adverse effects

No data available

Ingredients:**Fluorophlogopite (Mg₃K[AlF₂O(SiO₃)₃]):**Additional ecological : No data available
information

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : In accordance with local and national regulations.

Contaminated packaging : Empty containers should be taken to an approved waste
handling site for recycling or disposal.
In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION**International Regulations**Remarks : Not classified as dangerous in the meaning of transport
regulations.**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

SYMIC C393

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000022309	Date of first issue: 03/21/2018

Domestic regulation

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Combustible dust

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Titanium oxide (TiO ₂)	13463-67-7
Iron oxide (Fe ₂ O ₃)	1309-37-1

Pennsylvania Right To Know

Titanium oxide (TiO ₂)	13463-67-7
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SYMIC C393

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000022309	Date of first issue: 03/21/2018

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Iron oxide (Fe ₂ O ₃)	1309-37-1

California Prop. 65

WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



WARNING: This product can expose you to chemicals including Titanium oxide (TiO₂), which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

Fluorophlogopite (Mg ₃ K[AlF ₂ O(SiO ₃) ₃])	12003-38-2
Iron oxide (Fe ₂ O ₃)	1309-37-1

California Permissible Exposure Limits for Chemical Contaminants

Titanium oxide (TiO ₂)	13463-67-7
Fluorophlogopite (Mg ₃ K[AlF ₂ O(SiO ₃) ₃])	12003-38-2
Iron oxide (Fe ₂ O ₃)	1309-37-1

The ingredients of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

TSCA : On TSCA Inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION**Full text of other abbreviations**

SYMIC C393

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000022309	Date of first issue: 03/21/2018

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
 ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
 NIOSH REL : USA. NIOSH Recommended Exposure Limits
 OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
 1910.1000
 OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1
 Limits for Air Contaminants
 OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3
 Mineral Dusts
 ACGIH / TWA : 8-hour, time-weighted average
 NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour
 workday during a 40-hour workweek
 OSHA P0 / TWA : 8-hour time weighted average
 OSHA Z-1 / TWA : 8-hour time weighted average
 OSHA Z-3 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of
 Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation,
 and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the
 German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic
 Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely
 Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule;
 ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x%
 growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP
 - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International
 Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International
 Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half
 maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory
 of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -
 International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -
 International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -
 Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population
 (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships;
 MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National
 Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No
 Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National
 Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for
 Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution
 Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of
 Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA
 - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the
 European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and
 Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition
 Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet;
 TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States);
 UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous
 Goods; vPvB - Very Persistent and Very Bioaccumulative

SAFETY DATA SHEET



SYMIC C393

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000022309	Date of first issue: 03/21/2018

Revision Date : 03/21/2018

The information provided in this Material 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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