

CRTV5120

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: CRTV5120

Additional identification

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

Identified uses: Silicone Elastomer

Uses advised against: Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Distributor Information : Momentive Performance Materials GmbH
Chempark Leverkusen Gebaeude V7
DE - 51368 Leverkusen
Germany

Contact person : MomentiveEMEA.productsteward@momentive.com

Telephone : General information
00800.4321.1000 (Customer Service Centre)

1.4

Emergency telephone number : Europe, Israel & All other: +44 (0) 1235239670; Middle East:+44 (0) 1235239671

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Skin corrosion	Category 1C	H314: Causes severe skin burns and eye damage.
Serious eye damage	Category 1	H318: Causes serious eye damage.

2.2 Label Elements

Contains: Methyltriacetoxysilane
di-tert-butoxydiacetoxysilane



Signal Words: Danger

Hazard Statement(s): H314: Causes severe skin burns and eye damage.

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Precautionary Statements

Prevention: P280: Wear protective gloves.
 P282: Wear eye protection.

Response: P302+P350: IF ON SKIN: Wash with plenty of soap and water.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical advice/attention.

Unknown toxicity - Health

Acute toxicity, inhalation, vapor 0 %
 Acute toxicity, inhalation, dust or mist 0 %

Additional Information: No data available.

2.3 Other hazards No data available.

SECTION 3: Composition/information on ingredients

Chemical nature: Mixture of polydimethylsiloxanes, fillers and cross-linkers.

3.2 Mixtures

General information: No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Methyltriacetoxysilane	5 - <10%	4253-34-3	224-221-9	01-2119962266-32-0000	No data available.	
di-tert-butoxydiacetoxysilane	1 - <3%	13170-23-5	236-112-3	No data available.	No data available.	
Acetic acid	0,1 - <1%	64-19-7	200-580-7	01-2119475328-30-XXXX	No data available.	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification	Notes
Methyltriacetoxysilane	Acute Tox.: 4: H302Skin Corr.: 1C: H314Eye Dam.: 1: H318	No data

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		available.
di-tert-butoxydiacetoxysilane	Skin Corr.: 1B: H314Acute Tox.: 4: H302Eye Dam.: 1: H318No data available.	No data available.
Acetic acid	Flam. Liq.: 3: H226 Skin Corr.: 1A: H314Eye Dam.: 1: H318	Note B

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

General: Get medical attention if symptoms occur.

4.1 Description of first aid measures

Inhalation: Move to fresh air. Get medical attention if any discomfort continues.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact: After contact with skin, remove product mechanically. Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.

Ingestion: Rinse mouth. Do not induce vomiting. Consult a physician for specific advice.

4.2 Most important symptoms and effects, both acute and delayed: No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: No data available.

SECTION 5: Firefighting measures

General Fire Hazards: Use standard firefighting procedures and consider the hazards of other involved materials. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

5.1 Extinguishing media

Suitable extinguishing media: All standard extinguishing agents are suitable.

Unsuitable extinguishing media: Do not use water jet.

5.2 Special hazards arising from the substance or mixture: No data available.

5.3 Advice for firefighters

Special fire fighting procedures: Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective clothing. Use water spray to keep fire-exposed containers cool.

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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Wash skin thoroughly with soap and water. Keep container tightly closed and in a well-ventilated place. See Section 8 of the SDS for Personal Protective Equipment. Avoid contact with skin and eyes.
- 6.2 Environmental Precautions:** Do not allow runoff to sewer, waterway or ground.
- 6.3 Methods and material for containment and cleaning up:** Shovel up and place in a container for salvage or disposal. Caution: Contaminated surfaces may be slippery.
- 6.4 Reference to other sections:** Prevent runoff from entering drains, sewers, or streams. Caution: Contaminated surfaces may be slippery.

SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Acetic acid is formed during processing. Wear appropriate personal protective equipment. Product may charge electrostatically during pouring or filling. Use only in well-ventilated areas. Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Keep containers tightly closed.
- 7.2 Conditions for safe storage, including any incompatibilities:** Keep away from food, drink and animal feeding stuffs. Keep container tightly closed and in a well-ventilated place.
- 7.3 Specific end use(s):** No data available.

SECTION 8: Exposure controls/personal protection

**8.1 Control Parameters
 Occupational Exposure Limits**

Chemical name	Type	Exposure Limit Values	Source
Carbon Black	STEL	7 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	TWA	3,5 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Acetic acid	TWA	10 ppm 25 mg/m ³	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU (12 2009)

Biological Limit Values

None.

**8.2 Exposure controls
 Appropriate Engineering Controls:**

Eyewash bottle with clean water. Use only in well-ventilated areas. Observe good industrial hygiene practices.

Individual protection measures, such as personal protective equipment

General information: Eyewash bottle with clean water. Use only in well-ventilated areas. When using do not eat, drink or smoke. Wash hands after handling.

Eye/face protection: Safety glasses with side-shields conforming to EN166

Skin protection

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Hand Protection:	Advice: Protective gloves made of : Neoprene. Polyvinyl chloride (PVC). Nitrile rubber. Always ensure that gloves are free from defects and that they are stored and used correctly.
Other:	No data available.
Respiratory Protection:	Respirator with a vapour filter (EN 141) If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respiratory protection mask with Filterttype ABEK
Hygiene measures:	Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation, especially in confined areas. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke.
Environmental exposure controls:	No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	solid
Form:	Paste
Color:	Black
Odor:	Acetic acid.
Odor Threshold:	No data available.
pH:	No data available.
Melting Point:	No data available.
Boiling Point:	not applicable
Flash Point:	No data available.
Evaporation Rate:	not applicable
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	ca. 1,08 g/cm ³
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	Insoluble
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	Material is stable under normal conditions.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.

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Explosive properties: No data available.
Oxidizing properties: No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: No data available.

10.2 Chemical Stability: Material is stable under normal conditions.

10.3 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous polymerization will not occur.

10.4 Conditions to avoid: Reacts with water liberating small amounts of acetic acid.

10.5 Incompatible Materials: Strong Acids, Strong Bases

10.6 Hazardous Decomposition Products: Carbon oxides Oxides of silicon. Acetic acid. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

SECTION 11: Toxicological information

General information: Our Experience shows that our Silicone Elastomer products can be handled without risk to health if used properly and if the usual precautions for industrial hygiene are observed.

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: No data available.

Eye contact: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: LD 50 (Rat): 4.800 mg/kg (OECD-Guideline 401 (Acute Oral Toxicity))

Specified substance(s)

Methyltriacetoxysilane LD 50 (Rat): 1.830 mg/kg
 LD 50 (Rat): 1.550 mg/kg

di-tert-butoxydiacetoxysilane LD 50 (Rat): 1.400 mg/kg

Acetic acid LD 50 (Rat): 3.310 mg/kg

Dermal

Product: LD 50 (Rat, male and female): 2.400 mg/kg (OECD-Guideline 402 (Acute Dermal Toxicity))

Specified substance(s)

Methyltriacetoxysilane No data available.

di-tert-butoxydiacetoxysilane No data available.

Acetic acid LD 50 (Rabbit): 1.060 mg/kg

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Inhalation

Product: LC50 (Rat, male and female, 4 h): 36 mg/l (OECD Test Guideline 403)
Not classified for acute toxicity based on available data.

Specified substance(s)

Methyltriacetoxysilane No data available.
di-tert- No data available.
butoxydiacetoxysilane
Acetic acid TDLo (Rat, 4 h): 16 mg/l

Repeated dose toxicity

Product: NOAEL (Rat(male and female), Inhalation(vapour)): 150 mg/kg (OECD 453)

NOAEL (Rabbit(male and female), Dermal): 1 mg/kg (OECD 410)

Specified substance(s)

Methyltriacetoxysilane No data available.
di-tert- No data available.
butoxydiacetoxysilane
Acetic acid No data available.

Skin Corrosion/Irritation:

Product: OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rat): No skin irritation

Specified substance(s)

Methyltriacetoxysilane OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit): Corrosive
di-tert- OECD Test Guideline 404 (Rabbit): Causes burns. The health hazard evaluation is based on the toxicological properties of a similar material.
butoxydiacetoxysilane (Rabbit): Corrosive
Acetic acid

Serious Eye Damage/Eye Irritation:

Product: OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): No eye irritation

Specified substance(s)

Methyltriacetoxysilane OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Corrosive
di-tert- (Rabbit): Strongly irritating.
butoxydiacetoxysilane
Acetic acid No data available. (Rabbit): Corrosive

Respiratory or Skin Sensitization:

Product: Not a skin sensitizer.
, OECD-Guideline 406 (Skin Sensitisation)negative

Specified substance(s)

Methyltriacetoxysilane No data available.
di-tert- No data available.
butoxydiacetoxysilane
Acetic acid No data available.

Germ Cell Mutagenicity

In vitro

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Product: Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)
 Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic)

Specified substance(s)

Methyltriacetoxysilane No data available.
 di-tert- No data available.
 butoxydiacetoxysilane
 Acetic acid No data available.

In vivo

Product: Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)): negative

Specified substance(s)

Methyltriacetoxysilane No data available.
 di-tert- No data available.
 butoxydiacetoxysilane
 Acetic acid No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

Methyltriacetoxysilane No data available.
 di-tert- No data available.
 butoxydiacetoxysilane
 Acetic acid No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Methyltriacetoxysilane No data available.
 di-tert- No data available.
 butoxydiacetoxysilane
 Acetic acid No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Methyltriacetoxysilane No data available.
 di-tert- No data available.
 butoxydiacetoxysilane
 Acetic acid No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Methyltriacetoxysilane No data available.
 di-tert- No data available.
 butoxydiacetoxysilane
 Acetic acid No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

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Methyltriacetoxysilane No data available.
 di-tert- No data available.
 butoxydiacetoxysilane
 Acetic acid No data available.

Other effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Methyltriacetoxysilane No data available.
 di-tert- No data available.
 butoxydiacetoxysilane
 Acetic acid LC50 (Lepomis macrochirus, 96 h): 75 mg/l (No data available.)
 LC0 (Leuciscus idus): 368 mg/l (No data available.)
 LC100 (Leuciscus idus): 452 mg/l (No data available.)
 LC50 (Leuciscus idus, 48 h): 410 mg/l (No data available.)
 LC50 (Pimephales promelas, 96 h): 88 mg/l (No data available.)

Aquatic Invertebrates

Product: EC50 (Daphnia magna, 48 h): > 0,015 mg/l

Specified substance(s)

Methyltriacetoxysilane No data available.
 di-tert- No data available.
 butoxydiacetoxysilane
 Acetic acid LC0 (Daphnia magna): 150 mg/l (No data available.)
 EC50 (Daphnia magna, 24 h): 95 mg/l (No data available.)

Chronic Toxicity

Fish

Product: LC50 (Oncorhynchus mykiss, 14 d): 0,01 mg/l

Specified substance(s)

Methyltriacetoxysilane No data available.
 di-tert- No data available.
 butoxydiacetoxysilane
 Acetic acid No data available.

Aquatic Invertebrates

Product: EC50 (Daphnia magna, 21 d): > 0,015 mg/l

Specified substance(s)

Methyltriacetoxysilane No data available.
 di-tert- No data available.
 butoxydiacetoxysilane
 Acetic acid No data available.

Toxicity to Aquatic Plants

Product: No data available.

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Specified substance(s)	
Methyltriacetoxysilane	No data available.
di-tert-butoxydiacetoxysilane	No data available.
Acetic acid	No data available.

12.2 Persistence and Degradability

Biodegradation

Product: activated sludge (adaptation not specified) (29 d, OECD Test Guideline 310): 3,7 % The product is not readily biodegradable.

Specified substance(s)	
Methyltriacetoxysilane	No data available.
di-tert-butoxydiacetoxysilane	No data available.
Acetic acid	Biological degradability (5 d, No data available.): 60 %

BOD/COD Ratio

Product: No data available.

Specified substance(s)	
Methyltriacetoxysilane	No data available.
di-tert-butoxydiacetoxysilane	No data available.
Acetic acid	No data available.

12.3 Bioaccumulative potential

Product: Pimephales promelas, Bioconcentration Factor (BCF): 12,40 May accumulate in soil and water systems.

Specified substance(s)	
Methyltriacetoxysilane	No data available.
di-tert-butoxydiacetoxysilane	No data available.
Acetic acid	No data available.

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Methyltriacetoxysilane	No data available.
di-tert-butoxydiacetoxysilane	No data available.
Acetic acid	No data available.

12.5 Results of PBT and vPvB assessment: No data available.

Methyltriacetoxysilane	No data available.
di-tert-butoxydiacetoxysilane	No data available.
Acetic acid	No data available.

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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General information: The generation of waste should be avoided or minimized wherever possible. See Section 8 for information on appropriate personal protective equipment. Do not discharge into drains, water courses or onto the ground.

Disposal methods: Can be incinerated when in compliance with local regulations.

SECTION 14: Transport information

ADR

14.1 UN Number: UN 1759
 14.2 UN Proper Shipping Name: CORROSIVE SOLID, N.O.S.(METHYLTRiacETOXYSILANE)
 14.3 Transport Hazard Class(es)
 Class: 8
 Label(s): 8
 Hazard No. (ADR): 80
 Tunnel restriction code: (E)
 14.4 Packing Group: III
 Limited quantity
 Excepted quantity
 14.5 Environmental Hazards: Not regulated.
 Marine Pollutant No

RID

14.1 UN Number: UN 1759
 14.2 UN Proper Shipping Name: CORROSIVE SOLID, N.O.S.(METHYLTRiacETOXYSILANE)
 14.3 Transport Hazard Class(es)
 Class: 8
 Label(s): 8
 14.4 Packing Group: III
 14.5 Environmental Hazards: Not regulated.
 Marine Pollutant No

IMDG

14.1 UN Number: UN 1759
 14.2 UN Proper Shipping Name: CORROSIVE SOLID, N.O.S.(METHYLTRiacETOXYSILANE)
 14.3 Transport Hazard Class(es)
 Class: 8
 Label(s): 8
 EmS No.: F-A, S-B
 14.4 Packing Group: III
 Limited quantity
 Excepted quantity
 14.5 Environmental Hazards: Not regulated.
 Marine Pollutant: No

IATA

14.1 UN Number: UN 1759
 14.2 Proper Shipping Name: Corrosive solid, n.o.s.(METHYLTRiacETOXYSILANE)
 14.3 Transport Hazard Class(es):
 Class: 8
 Label(s): 8
 14.4 Packing Group: III
 Cargo aircraft only Packing Instructions: 864

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Passenger and cargo aircraft 864
 Packing Instructions:
 Limited quantity: Y841
 Packing Instructions:
 Excepted quantity
 14.5 Environmental Hazards: Not regulated.
 Marine Pollutant: No

14.6 Special precautions for user: Keep away from foodstuffs and animal feed.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:

not applicable

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 689/2008 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
Acetic acid	64-19-7	0,1 - 1,0%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

Inventory Status

Australia AICS:	y (positive listing)	Remarks: None.
Canada DSL Inventory List:	y (positive listing)	Remarks: None.
EU EINECS List:	y (positive listing)	Remarks: None.
Japan (ENCS) List:	y (positive listing)	Remarks: None.

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China Inventory of Existing Chemical Substances:	y (positive listing)	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	y (positive listing)	Remarks: None.
Canada NDSL Inventory:	n (Negative listing)	Remarks: None.
Philippines PICCS:	y (positive listing)	Remarks: None.
US TSCA Inventory:	y (positive listing)	Remarks: On TSCA Inventory
New Zealand Inventory of Chemicals:	y (positive listing)	Remarks: None.

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and sources for data: No data available.

Wording of the H-statements in section 2 and 3

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Training information: No data available.

Classification according to Regulation (EC) No 1272/2008 as amended.

Skin Corr. 1C, H314

Issue Date: 01.02.2017

Disclaimer:

Notice to reader

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

Further Information

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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