### CSM-3

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878



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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	<b>Product identifier</b> Product Name Product Code Unique Formula Identifier (UFI) Nanoform	CSM-3 Not applicable Not applicable The product does not contain nanopar	ticles.
1.2	Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Uses Advised Against	Metal surface treatment products, incl None Known	uding galvanic and electroplating products
1.3	Details of the supplier of the safety data sheet Company Identification Telephone Fax E-Mail (competent person)	VISHAY MEASUREMENTS GROUP Tatschenweg 1 74078 Heilbronn Deutschland +49 (0) 7131 39099-0 +49 (0) 7131 39099-229 mm.de@vpgsensors.com	GMBH
1.4	Emergency telephone number National Poisons Information Service (United Kingdom) NHS 24 Emergency Phone No. Languages spoken	+44 (0) 3448 920111 111 (00-1) 703-527-3887 All official European languages.	24 hr. emergency phone number Healthcare Professionals ONLY Members of Public CHEMTREC (24 hours)

### **SECTION 2: HAZARDS IDENTIFICATION**

2.1 2.1.1	Classification of the substance or mixture Regulation (EC) No. 1272/2008 (CLP)	Aerosol 1; H222, H229 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H336 Aquatic Chronic 3; H412
2.2	Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
	Product Name	CSM-3
	Hazard Pictogram(s)	
	Signal Word(s)	DANGER
	Contains:	Trans-dichloroethylene
	Hazard Statement(s)	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated. H319: Causes serious eye irritation. H332: Harmful if inhaled.

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	H336: May cause drowsiness or dizziness. H412: Harmful to aquatic life with long lasting effects.
Precautionary Statement(s)	<ul> <li>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P211: Do not spray on an open flame or other ignition source.</li> <li>P251: Pressurized container: Do not pierce or burn, even after use.</li> <li>P410+P412: Protect from sunlight. Do no expose to temperatures exceeding 50 °C.</li> <li>P261: Avoid breathing mist/vapours/spray.</li> <li>P312: Call a POISON CENTER/doctor if you feel unwell.</li> </ul>
Supplemental information	None assigned

### 2.3 Other hazards

May cause cardiac arrhythmia. Ingestion may cause irritation of the gastrointestinal tract.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### **3.1 Substances** - Not applicable.

### 3.2 Mixtures

### EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard classification
Trans-dichloroethylene	>60 - <100	156-60-5	205-860-2	Not yet assigned in the supply chain	Flam. Liq. 2; H225 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H336 Aquatic Chronic 3; H412
Carbon dioxide	>1 - <10	124-38-9	204-696-9	Not yet assigned in the supply chain	Press. Gas (compressed gas); H280

Note: For full text of H phrases see section 16.

### SECTION 4: FIRST AID MEASURES



4.1	Description of first aid measures	
	Self-protection of the first aider	Avoid breathing mist/vapours/spray. Ensure adequate ventilation. Wear suitable protective clothing. Wear suitable respiratory protective equipment if exposure to high levels of material are likely. Avoid contact with skin. Contaminated clothing should be laundered before reuse. Do not use mouth-to-mouth resuscitation.
		Eyewash facilities should be stationed close to workplace where possible.
	Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
		Call a POISON CENTER/doctor if you feel unwell.
	Skin Contact	IF ON SKIN: Gently wash with plenty of soap and water. Remove contaminated clothing and wash clothing before reuse. If irritation (redness, rash, blistering) develops, get medical attention.
	Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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4.2

4.3

Ingestion

delayed

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Most important symptoms and effects, both acute and

Indication of any immediate medical attention and

# IF SWALLOWED: Rinse mouth. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. If symptoms occur obtain medical attention. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. May cause cardiac arrhythmia. Ingestion may cause irritation of the gastrointestinal tract. Treat symptomatically.

### **SECTION 5: FIREFIGHTING MEASURES**

special treatment needed

5.1	Extinguishing media	
	Suitable Extinguishing media	As appropriate for surrounding fire. Extinguish preferably with foam, carbon
		dioxide or dry chemical.
	Unsuitable extinguishing media	Do not use water jet. Direct water jet may spread the fire.
5.2	Special hazards arising from the substance or mixture	Extremely flammable aerosol. Vapours can form explosive mixtures with air. Containers may explode when involved in a fire. Keep container(s) exposed to fire cool, by spraying with water. Thermal decomposition will evolve toxic and corrosive vapours: Carbon dioxide, Carbon monoxide, Phosgene and Hydrogen chloride. Vapours are heavier than air and may travel considerable distances to a
5.3	Advice for fire-fighters	source of ignition and flashback. Sealed containers may rupture explosively if hot. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.
SECT	ION 6: ACCIDENTAL RELEASE MEASURES	
61	Personal precautions, protective equipment and	Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition

6.1	Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing mist/vapours/spray. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See Section: 8. The vapour is heavier than air; beware of pits and confined spaces.
6.2	Environmental precautions	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.
6.3	Methods and material for containment and cleaning up	Ensure suitable personal protection during removal of spillages. Use non-sparking equipment when picking up flammable spill. Adsorb spillages onto sand, earth or any suitable adsorbent material. Do NOT absorb in saw-dust or other combustible absorbents. Transfer to a lidded container for disposal or recovery. Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste. Allow small spillages to evaporate provided there is adequate ventilation.
6.4	Reference to other sections	See Section: 8, 13

### SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling	Ensure adequate ventilation. Avoid breathing mist/vapours/spray. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See Section: 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Do not use sparking tools. Do not spray on an open flame or other ignition source. Pressurised container - Do not pierce or burn, even after use. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.
7.2	Conditions for safe storage, including any incompatibilities	Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from direct sunlight. Do not reuse empty containers.



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Storage temperature Storage life Incompatible materials

7.3 Specific end use(s)

Keep cool. Do not expose to temperatures exceeding 50°C/ 122°F. Stable under normal conditions. Isolate from reducers and flammable/ combustible materials etc in storage. Keep away from: Strong oxidising agents, Acids and Alkalis. See Section: 1.2.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

### 8.1.1 Occupational Exposure Limits

United Kingdom

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Carbon dioxide	124-38-9	5000	9150	15000	27400	-

Source: UK WEL: Workplace Exposure Limit (UK HSE EH40)

Ireland

SUBSTANCE	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational B (15-minute	Notes	
		ppm	mg/m³	ppm	mg/m³	
Carbon dioxide	124-38-9	5000	9000	-	-	IOELV

Source: 2021 Code of Practice for Safety, Health and Welfare at Work (Chemical Agents) Regulation (2001 – 2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001 – 2019); Health and Safety Authority

Notations:

IOELV: Indicative Occupational Exposure Limit Value

8.1.2	Biological limit value	Not established.
8.1.3	PNECs and DNELs	Not established.
8.2 8.2.1	Exposure controls Appropriate engineering controls	Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Local exhaust recommended. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Eyewash facilities should be stationed close to workplace where possible.
8.2.2	Individual protection measures, such as personal protective equipment (PPE)	General hygiene measures for the handling of chemicals are applicable. Avoid contact with skin, eyes or clothing. Avoid breathing mist/vapours/spray. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be thoroughly cleaned. Do not eat, drink or smoke at the work place.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

### Hand protection:

Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the



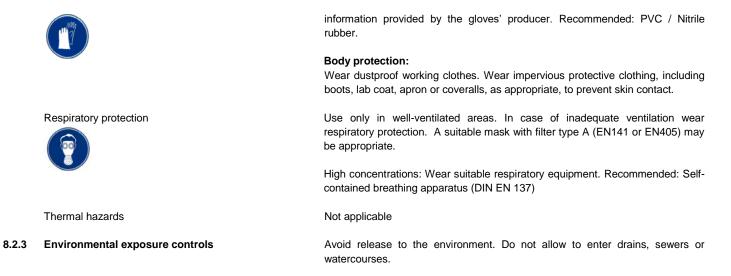
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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties			
	Physical state	Liquid		
	Colour	Colourless		
	Odour	Sharp, Harsh		
	Melting point and freezing point	- 50 °C		
	Boiling point or initial boiling point and boiling range	48 ℃		
	Flammability	Not applicable		
	Lower and upper explosion limit or lower and upper flammability limit	9.7 – 12.8 %		
	Flash point	2 – 4 ℃		
	Auto-ignition temperature	Not established.		
	Decomposition temperature	Not established.		
	pH	Not established.		
	Kinematic viscosity	Not established.		
	Solubility	Soluble in water. 6.3 mg/ml @ 25 °C		
	Partition coefficient: n-octanol/water (log value)	Not established.		
	Vapour pressure	Not determined.		
	Density and/or relative density	1.28 g/ml @ 20 ℃		
	Relative vapour density	Not determined.		
	Particle characteristics	Not applicable - Liquid		
9.2	Other information			
	Explosive properties	Not explosive		
	Oxidising properties	Not oxidising.		
	Volatile Organic Compound Content	96%		
	Evaporation Rate	2.80		

### SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivit	У
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10.2 Chemical stability

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

Stable under normal conditions.

Stable under normal conditions.

Extremely flammable aerosol. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep from direct sunlight. Do not expose to temperatures

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UREMENTS

		exceeding 50℃/ 122年. Do not spray on an open flame or ot her ignition source. Take precautionary measures against static discharge.
10.5	Incompatible materials	Isolate from reducers and flammable/ combustible materials etc in storage. Keep
		away from: Strong oxidising agents, Acids and Alkalis.
10.6	Hazardous decomposition product(s)	Thermal decomposition will evolve toxic and corrosive vapours. Carbon dioxide,
		Carbon monoxide, Phosgene and Hydrogen chloride.

### SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity		
	Ingestion		Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated Estimated LD50 > 2000 mg/kg bw/day
	Inhalation		Mixture: Acute Tox. 4; H332: Harmful if inhaled.
			Acute Toxicity Estimate Mixture Calculation: Estimated LC50: >10 – ≤20 mg/l
		Trans-dichloroethylene	Acute Tox. 4; H332: Harmful if inhaled.
			EU Harmonised Classification.
	Skin Contact		Mixture: Based upon the available data, the classification criteria are not met.
			Acute Toxicity Estimate Mixture Calculation: Estimated LD50 > 2000 mg/kg
			bw/day
	Skin corrosion/irritation		Based upon the available data, the classification criteria are not met.
	Serious eye damage/irritation		Mixture: Eye Irrit. 2; H319
		Trans-dichloroethylene	Serious eye damage/irritation, Category 2
	<b>.</b>		Irritating to eyes. (rabbit) – OECD 405
	Respiratory or skin sensitizati	on	Mixture: Based upon the available data, the classification criteria are not met.
	Germ cell mutagenicity		Mixture: Based upon the available data, the classification criteria are not met.
	Carcinogenicity		Mixture: Based upon the available data, the classification criteria are not met.
	Reproductive toxicity		Mixture: Based upon the available data, the classification criteria are not met.
	STOT - single exposure	Trong diablargathylang	Mixture: STOT SE 3; H336: May cause drowsiness or dizziness.
		Trans-dichloroethylene	STOT SE 3; H336: May cause drowsiness or dizziness. ECHA registration dossier
	STOT - repeated exposure		Mixture: Based upon the available data, the classification criteria are not met.
	Aspiration hazard		Mixture: Based upon the available data, the classification criteria are not met.
11.2	Information on other hazards		
11.2.1	Endocrine disrupting properties		This product does not contain a substance that has endocrine disrupting
			properties with respect to humans as no components meets the criteria.
11.2.2	Other information		None

### SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity		Mixture: Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects.
		Trans-dichloroethylene	Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects.
			EC50 (48 hour) 36.36mg/L (Algae)
12.2	Persistence and degradability		No data for the mixture as a whole.
		Trans-dichloroethylene	Readily biodegradable.
		Carbon dioxide	Readily biodegradable.
12.3	Bioaccumulative potential		No data for the mixture as a whole.
		Trans-dichloroethylene	The substance has low potential for bioaccumulation. Log KOW <3
		Carbon dioxide	No data available
12.4	Mobility in soil		No data for the mixture as a whole.
		Trans-dichloroethylene	Can be waived on basis of low partition coefficient
		Carbon dioxide	No data available
12.5	Results of PBT and vPvB asses	sment	Not classified as PBT or vPvB.
12.6	Endocrine disrupting properties	S	This product does not contain a substance that has endocrine disrupting
			properties with respect to non-target organisms as no components meets the
			criteria.

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12.7	Other adverse effects	None known			
SECTIC	ON 13: DISPOSAL CONSIDERATIONS				
13.1	Waste treatment methods	This material and its container must be disposed of as hazardous waste. Dispose of wastes in an approved waste disposal facility. Waste classification according to Directive 2008/98/EC (Waste Framework Directive): HP4, HP5, HP6, HP14			
13.2	Additional Information	Dispose of conte	ents in accordance v	vith local, state or na	tional legislation.
SECTIC	ON 14: TRANSPORT INFORMATION				
		ADR/RID	ADN	IMDG	IATA/ICAO
14.1	UN number or ID number	UN 1950	UN 1950	UN 1950	UN 1950
14.2	UN proper shipping name	AEROSOLS, flammable	AEROSOLS, flammable	AEROSOLS, flammable	AEROSOLS, flammable
14.3	Transport hazard class(es)	2	2	2.1	2.1
14.4	Packing group	None assigned	None assigned	None assigned	None assigned
14.5	Environmental hazards	Not applicable	Not applicable	Not classified as a Marine Pollutant.	Not applicable
14.6	Special precautions for user	See Section: 2			
14.7	Maritime transport in bulk according to IMO instruments	Not applicable	Not applicable	Not applicable	
14.8	Additional information	Recommended: F	Road/Rail/Sea transp	oort only.	
SECTIC	IN 15: REGULATORY INFORMATION				
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture				
15.1.1	EU regulations	Aerosol is packaged in accordance with Aerosol Dispensers Directive Council Directive 75/324/EEC, as amended. Inverted epsilon labelling '3' certifies conformity			
	Use restriction according to REACH annex XVII, no.: Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III- Directive]	Not restricted P3b			
	Restrictions of occupation:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.			
	To follow:			on the protection of the prote	ne health and safety of k
15.1.2	National regulations				
	Germany				
	Water hazard class (WGK)	Water hazard cl	ass: 2		
15.2	Chemical Safety Assessment	A REACH chem	ical safety assessm	ent has not been ca	rried out.
15.2	Water hazard class (WGK)			ent has not been ca	rried out.

### **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

### **References:**

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Existing Safety Data Sheet (SDS).

Harmonised Classification and Existing ECHA registration(s) for Trans-dichloroethylene (CAS No. 156-60-5); EU classification and labelling inventory for Carbon dioxide (CAS No. 124-38-9).

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Regulation (EC) No. 1212/2006 (CLP)	
Aerosol 1; H222, H229	Expert judgement
Eye Irrit. 2; H319	Threshold Calculation
Acute Tox. 4; H332	Acute Toxicity Estimate (ATE) Calculation.
STOT SE 3; H336	Threshold Calculation
Aquatic Chronic 3; H412	Summation Calculation

### LEGEND

LEGEND	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
BCF	Bioconcentration factor (BCF)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
EU	European Union
EC	European Community
ECHA	European Chemicals Agency
EN	European Standard
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LTEL	Long term exposure limit
NOAEC	No observed adverse effect concentration
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TWA	Time Weighted Average
STEL	Short term exposure limit
vPvB	very Persistent and very Bioaccumulative
UK	United Kingdom
UN	United Nations

### Hazard classification / Classification code:

Aerosols Category 1

Flam. Liq. 2; Flammable liquid, Category 2 Acute Tox. 4; Acute toxicity, Category 4 Skin Irrit. 2; Skin corrosion/irritation, Category 2 Eye Irrit. 2; Serious eye damage/irritation, Category 2 STOT SE 3; Specific target organ toxicity — single exposure, Category 3 Aquatic Chronic 3; Hazardous to the aquatic environment, Chronic , Category 3

### Hazard Statement(s)

H222 H229: Extremely flammable aerosol. Pressurized container: May burst if heated.
H225: Highly flammable liquid and vapour.
H332: Harmful if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H412: Harmful to aquatic life with long lasting effects.



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Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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