

Safety Data Sheet

Prepared in accordance with Commission Regulation (EU) 2020/878 amending Annex II of Regulation (EC) No 1907/2006



Stock Number: 227-36902-01
Revision Date: 12-10-2023
This document replaces SDS dated: 17-03-2023
2 Letter ISO country code/language code: UK/EN

Perf check sample (DCM) for FID, CRM

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

1.1 Product identifier: Perf check sample (DCM) for FID, CRM

Stock Number: 227-36902-01

Other means of identification:

Synonyms: None Known

REACH Registration No.: None Known

Molecular formula: CH₂Cl₂

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

Relevant identified uses: For Laboratory use only

Uses advised against: This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal as per 40 CFR Part 751.107 of EPA Regulations.

1.3 Details of the Supplier of the Safety Data Sheet:

Supplier:

Shimadzu Europa GmbH
Albert-Hahn-Str. 6-10
47269 Duisburg
Telephone no. +49(0)203-7687-0
Fax no. +49(0)203-711045
gs@shimadzu.eu

Manufacturer:

Restek Corporation
110 Benner Circle
Bellefonte, Pa. 16823
800-356-1688

1.4 Emergency telephone number:

00 1 800-424-9300
(CHEMTREC within the US)

0870-8200418
(CHEMTREC within the UK)

00 1 703-741-5970
(Outside USA)

+1 703-741-5970
(CHEMTREC International)

Poison Centre contact information:

National Poisons Information Service (NPIS)
Email: director.birmingham.unit@npis.org
Website: <http://www.npis.org/>

SECTION 2: Hazards identification

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2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]: Carcinogenicity Category 2
Acute Toxicity - Oral Category 4

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008 [CLP]:

Hazard pictograms:



Signal Word:

Warning

Hazard Statements:

H302 - Harmful if swallowed
H351 - Suspected of causing cancer.

Precautionary Statements:

P201 - Obtain special instructions before use.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 - IF exposed or concerned: Get medical advice/ attention.
P330 - Rinse mouth.
P270 - Do not eat, drink or smoke when using this product.
P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell.

Supplemental Hazard information (EU):

None Known

2.3 Other hazards:

This substance does not meet the PBT or vPvB criteria of REACH, Annex XIII

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

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3.2 Mixtures:

Chemical Name	%	CAS #	EC No. REACH Registration No.	Classification (EC) No 1272/2008	M Factor	SCL	Acute Toxicity Estimates
Methylene chloride (dichloromethane)	99.6393	75-09-2	200-838-9 None Known	Acute Tox. 4 (Oral); H302 Carc. 2; H351	No data available	No data available	Not determined
n-Eicosane (C20)	0.07	112-95-8	204-018-1 None Known		No data available	No data available	Not determined
2,6-dimethylaniline	0.0689	87-62-7	201-758-7 None Known	Aquatic Chronic 2; H411 Acute Tox. 4 (Dermal); H312 Acute Tox. 4 (Inh Dust/Mist); H332 Acute Tox. 4 (Oral); H302 Carc. 2; H351 Skin Irrit. 2; H315 STOT SE 3; H335	No data available	No data available	Not determined
1-octanol	0.0581	111-87-5	203-917-6 None Known		No data available	No data available	Not determined
2-octanone	0.0573	111-13-7	203-837-1 None Known		No data available	No data available	Not determined
n-Tetradecane (C14)	0.0535	629-59-4	211-096-0 None Known		No data available	No data available	Not determined

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n-Tridecane (C13)	0.0529	629-50-5	211-093-4 None Known		No data available	No data available	Not determined
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For full text of H-statements see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures:

Inhalation:

Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eye contact:

Continue to flush eyes while awaiting medical attention Serious harm (damage) may result if treatment is delayed. Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact:

Wash with soap and water. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately.

Ingestion:

Never give anything by mouth to an unconscious person Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

Self protection of the first aider:

No data available

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

Harmful if swallowed

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

No additional first aid information available

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Use methods suitable to fight surrounding fire.
Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting

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Unsuitable extinguishing media:	fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do Not direct a stream of water into the hot burning liquid.
5.2 Special hazards arising from the substance or mixture:	None Known
Hazardous Combustion Products:	Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.
5.3 Advice for firefighters:	Carbon dioxide, Carbon monoxide Use methods for the surrounding fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Non-emergency personnel:	Non-emergency personnel should be kept clear of the area
Emergency responders:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

6.2 Environmental precautions: No data available

6.3 Methods and material for containment and cleaning up:

Small spills:	Refer to information provided for large spills
Large spills:	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

6.4 Reference to other sections: Refer to section 13 for disposal information

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area.
7.2 Conditions for safe storage, including	

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any incompatibilities:

Conditions for safe storage: Store in a cool dry place. Isolate from incompatible materials.

Materials to Avoid/Chemical Incompatibility: Strong oxidizing agents, Caustics (bases)

7.3 Specific end use(s): For Laboratory use only

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Occupational Exposure limit values:

Chemical Name	United Kingdom - Workplace Exposure Limits (WELs) - TWAs	United Kingdom - Workplace Exposure Limits (WELs) - STELs	United Kingdom - Biological Monitoring Guidance Values
Methylene chloride (dichloromethane)	100 ppm TWA; 350 mg/m ³ TWA	300 ppm STEL; 1060 mg/m ³ STEL	30 ppm Medium: end-tidal breath Time: post shift Parameter: Carbon monoxide

DNEL: None Known

PNEC: None Known

8.2 Exposure controls:

Appropriate engineering controls: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Individual protection measures, such as personal protective equipment:

Eye and face protection: Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin Protection:

Hand protection: No information available

Other skin protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

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Respiratory Protection:	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.
Respirator Type(s):	None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.
Thermal Hazards:	Not applicable
Environmental exposure controls:	No data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	No data available
Colour:	Colourless
Odour and odour threshold:	Strong
Odour threshold:	ND
pH:	Not applicable
Melting Point/Freezing Point (°C):	
Melting point (°C):	No data available
Freezing point (°C):	No data available
Initial boiling point and boiling range (°C):	39
Flash point (°C):	No data available
Evaporation Rate (water = 1):	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	
Upper flammable or explosive limit, % in air:	No data available
Lower flammable or explosive limit, % in air:	No data available
Vapour pressure:	No data available

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Vapor Density (Air=1): 2.93
Relative density (water = 1): 1.3254 - 1.3258 g/cm³ at 20 °C
Solubility(ies): Moderate; 50-99%
Partition coefficient: n-octanol/water: No data available
Auto-ignition temperature (°C): 556
Decomposition temperature (°C): No data available
Viscosity: 0
Explosive properties: No data available
Oxidizing properties: No data available

9.2 Other information:

Volatile Organic Chemicals: 99.64
Bulk density: 10.314

SECTION 10: Stability and reactivity

10.1 Reactivity: Not expected to be reactive
10.2 Chemical stability: Stable under normal conditions.
10.3 Possibility of hazardous reactions: None expected under standard conditions of storage
10.4 Conditions to avoid: High temperatures, Contamination
10.5 Incompatible materials: Strong oxidizing agents, Caustics (bases)
10.6 Hazardous decomposition products: Carbon dioxide, Carbon monoxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
Methylene chloride (dichloromethane)	ORAL LD50 Rat 1600 mg/kg	DERMAL LD50 Rat > 2000 mg/kg	INHALATION LC50-6H Rat 53 MG/L

Classification has been based on toxicological information of the components in Section 3.

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Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Classification has been based on toxicological information of the components in Section 3.

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.

Aspiration hazard:

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity:

Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Keep out of waterways.

Ecological Toxicity Data:

Chemical Name	CAS #	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
No data available				

12.2 Persistence and degradability:

No data

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12.3 Bioaccumulative potential: No data
12.4 Mobility in soil: No data available
12.5 Results of PBT and vPvB assessment: No data available
12.6 Other adverse effects: None Known
12.7 Additional information: No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Disposal methods: Spent or discarded material is a hazardous waste.
Incinerate spent or discarded material a permitted hazardous waste facility.
Waste codes / waste designations according to LoW: No data available

SECTION 14: Transport information

International carriage of dangerous goods by road (ADR), rail or inland waterways:

14.1 UN number: UN1593
14.2 UN proper shipping name: Dichloromethane
14.3 Transport hazard class(es): 6.1
14.4 Packing group: III

International carriage of dangerous goods by air (IATA):

14.1 UN number: UN1593
14.2 UN proper shipping name: Dichloromethane
14.3 Transport hazard class(es): 6.1
14.4 Packing group: III

14.5 Environmental hazards: No
14.6 Special precautions for user: No data available
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: No data available

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SECTION 15: Regulatory information

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

Chemical Name	EINECS	SVHC
Methylene chloride (dichloromethane)	Yes	No
2,6-dimethylaniline	Yes	No

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Revision Date: 12-10-2023

Indication of changes: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

Abbreviations and acronyms:

CAS = Chemical Abstract Service
DNEL= Derivative No Effect Level
EC= European Community
EINECS = European Inventory of Existing Chemical Substances
MSHA = Mine Safety Health Administration
NIOSH = National Institute of Occupational Safety & Health
OEL = Occupational Exposure Limit
PBT= Persistent, Bioaccumulative, Toxic
PNEC= Predicted No Effect Concentration
SCOEL= Scientific Committee on Occupational Exposure Limits
TLV = Threshold Limit Value
TWA= Time Weighted Average
vPvB= Very Persistent, Very Bioaccumulative
Wt.% = Weight Percent

Key literature references and sources for data: No data available

Hazard phrase(s) referenced in section 3
H351 - Suspected of causing cancer.
H302 - Harmful if swallowed

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H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H315 - Causes skin irritation
H335 - May cause respiratory irritation
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements:

Prevention:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P264 - Wash thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell.
P308+P313 - IF exposed or concerned: Get medical advice/ attention.
P330 - Rinse mouth.

Storage:

P405 - Store locked up.

Disposal:

P501 - Dispose of contents/container to a suitable disposal site in accordance with local/national/international regulations.

Disclaimer of Liability:

IMPORTANT: WHILE THE DESCRIPTIONS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU PERFORM AN ASSESSMENT TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED, DATA OR INFORMATION SET FORTH. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, OR DATA PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, THE DESCRIPTIONS, DATA AND INFORMATION FURNISHED HEREUNDER ARE GIVEN GRATIS. NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DATA AND INFORMATION GIVEN ARE ASSUMED. ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.