

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 09/04/2019 Version: 2.0

<b>SECTION 1: Identification of the substan</b>	ce/mixture and of the compar	ny/undertakir	ng
1.1. Product identifier			
Product form	: Mixture		
Product name	: MC3+ CENTRAL HEATING SYSTEM	1 CLEANER	
Type of product	: Heating system water treatment		
1.2. Relevant identified uses of the substance	e or mixture and uses advised ag	ainst	
1.2.1. Relevant identified uses			
	: Water treatment additive.		
1.2.2. Hose advised enginet			
1.2.2. Uses advised against No additional information available			
	chaot		
1.3. Details of the supplier of the safety data ADEY Innovation LLP	Sneet		
Head Office, Gloucester Road			
GL51 8NR Cheltenham - United Kingdom			
T +44 (0)1242 546700 - F +44 (0)1242 546777			
www.adey.com			
1.4. Emergency telephone number			
Emergency number : +4	44 (0)1242 546700 (8:30 – 5pm) +44	(0)7909 967607	(outside office hours)
SECTION 2: Hazards identification			
2.1. Classification of the substance or mixtur	e		
Classification according to Regulation (EC) No. 12	72/2008 [CLP]		
Not classified			
Adverse physicochemical, human health and envi To our knowledge, this product does not present any practice. 2.2. Label elements	particular risk, provided it is handled in a	ccordance with g	good occupational hygiene and safety
Labelling according to Regulation (EC) No. 1272/2	008 [CLP]		
No labelling applicable			
2.3. Other hazards Other hazards not contributing to the classification	: None under normal conditions.		
	the same attraction		
SECTION 3: Composition/information or	ingredients		
3.1. Substances			
Not applicable			
3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Propylene glycol substance with national workplace exposure limit(s) (GB)	(CAS-No.) 57-55-6 (EC-No.) 200-338-0 (REACH-no) 01-2119456809-23- XXXX	10 - 20	Not classified
BENZOTRIAZOLE	(CAS-No.) 95-14-7 (EC-No.) 202-394-1	<2.5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
	· ·		

Full text of H-statements: see section 16

SECTION 4: First aid measures 4.1. Description of first aid measures	
First-aid measures general	: Not expected to present a significant hazard under anticipated conditions of normal use. If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms occur.
First-aid measures after skin contact	: Take off contaminated clothing. Wash skin with plenty of water. Get medical attention if symptoms occur.

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First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and effect	is, both acute and delayed
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use. In high concentrations, vapours may irritate throat and respiratory system and cause coughing.
Symptoms/effects after skin contact	: May cause slight irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	<ul> <li>Ingestion is not considered a potential route of exposure. May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.</li> </ul>
4.3. Indication of any immediate medical	attention and special treatment needed
4.3. Indication of any immediate medical	attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide. Use extinguishing media appropriate for surrounding fire.
5.2. Special hazards arising from the substa	ance or mixture
Fire hazard	: The product is not flammable.
Explosion hazard	: Product is not explosive.
Reactivity in case of fire	: Not known.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Precautionary measures fire	: No special measures required.
Firefighting instructions	: Use extinguishing media appropriate for surrounding fire.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: The product is not flammable.

SECTION 6: Accidental release measure	es
6.1. Personal precautions, protective equipr	nent and emergency procedures
General measures	: Avoid release to the environment.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Stop leak if safe to do so. Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Stop leak if safe to do so. Ventilate area.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment a	and cleaning up
For containment	: Collect spillage.
Methods for cleaning up	: Take up liquid spill into absorbent material. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).
Other information	: Dispose of in accordance with relevant local regulations.
6.4. Reference to other sections	

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with s and eyes.	skin
Hygiene measures	: Always wash hands after handling the product. Do not eat, drink or smoke when using product.	this
7.2. Conditions for safe storage, including a	ny incompatibilities	
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container closed when not in use.	
Incompatible products	: Strong acids.	
Storage area	: Store in a well-ventilated place.	
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Special rules on packaging	: Keep only in original container.
7.3. Specific end use(s)	

No special requirements.

SECTION 8: Exposure controls/pe 8.1. Control parameters	rsonal protection
Propylene glycol (57-55-6) United Kingdom - Occupational Exposure	Limits
Local name	Propane-1,2-diol
WEL TWA (mg/m³)	10 mg/m <sup>3</sup> particulates 474 mg/m <sup>3</sup> total vapour and particulates
WEL TWA (ppm)	150 ppm total vapour and particulates
Regulatory reference	EH40/2005 (Third edition, 2018). HSE
8.2 Exposure controls	

# 8.2. Exposure controls

Appropriate engineering controls: Ensure adequate ventilation.

### Personal protective equipment:

Gloves. Safety glasses.

### Materials for protective clothing:

Wear suitable working clothes

#### Hand protection:

Protective gloves. Standard EN 374 - Protective gloves against chemicals.

### Eye protection:

Eye protection should only be necessary where liquid could be splashed or sprayed

### Skin and body protection:

Wear suitable protective clothing

### **Respiratory protection:**

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

### Personal protective equipment symbol(s):



#### Environmental exposure controls:

Avoid release to the environment.

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Flammability (solid, gas)	: Not applicable	
Decomposition temperature	: No data available	
Auto-ignition temperature	: No data available	
Flash point	: No data available	
Boiling point	: No data available	
Freezing point	: No data available	
Melting point	: Not applicable	
Relative evaporation rate (butylacetate=1)	: No data available	
рН	: No data available	
Odour threshold	: No data available	
Odour	: mild.	
Colour	: brown.	
Physical state	: Liquid	
9.1. Information on basic physical and c		
SECTION 9: Physical and chemical	properties	

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Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.1
Solubility	: Soluble.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing material according to EC criteria.
Explosive limits	: No data available
9.2. Other information	
VOC content	: According to Swiss ordinance 814.018, we certify that the product mentioned above does not contain any Volatile Organic Compounds (VOC)

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
Strong acids. Strong oxidizing agents.
10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological infor 11.1. Information on toxicological ef	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.	
Ecology - water	: The product does not have any known adverse effect on the tested aquatic organisms.	
Hazardous to the aquatic environment, short-term (acute)	: Not classified	
Hazardous to the aquatic environment, long-term (chronic)	: Not classified	
12.2. Persistence and degradability		
MC3+ CENTRAL HEATING SYSTEM CLEANER		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
MC3+ CENTRAL HEATING SYSTEM CLEANER		
Bioaccumulative potential	No data available.	

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12.4. Mobility in soil		
MC3+ CENTRAL HEATING SYSTEM CLEANER		
Ecology - soil	No data available.	
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Other adverse effects		
Other adverse effects :	None known.	
Additional information :	No other effects known	

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN						
ADR	IMDG	ΙΑΤΑ	ADN	RID		
14.1. UN number						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.2. UN proper shipping name						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.4. Packing group						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
No supplementary information available						

14.6. Special precautions for user

**Overland transport** 

Not applicable

Transport by sea Not applicable

Air transport

Not applicable

Inland waterway transport Not applicable

Rail transport

Not applicable

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

### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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VOC content

: According to Swiss ordinance 814.018, we certify that the product mentioned above does not contain any Volatile Organic Compounds (VOC)

# 15.1.2. National regulations

# Classified in line with 29 CFR

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H302	Harmful if swallowed.	
H319	Causes serious eye irritation	
H411	Toxic to aquatic life with long lasting effects.	

### SDS EU (REACH Annex II)

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