Material Safety Data Sheet

HYTHERM CG (CELLULAR GLASS) INSULATION INVERTED

According to EC 1907/2006 with its amendment Regulation (EU) 2015/830
Classification and labelling according to Regulation (EC) No. 1272/2008 (CLP)

Section 1: Identification

1.1 Product identifier

Product form	Article
Trade name	HYTHERM® CG (CELLULAR GLASS) INSULATION INVERTED
Product Group	Trade product

1.2 Relevant identified uses of the substance or mixture and uses advised against See Section 16

1.2.1 Relevant identified uses

Main use category	Professional use
Use of the substance / the mixture	Thermal insulation

1.2.1 Uses advised against No data available

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier

AXTER LTD, West Road, Ransomes Europark, Ipswich IP3 9SX UK
Tel: +44 (0) 1473 724056, 8.00 am to 5.30 pm, Monday to Friday
Email: info@axterltd.co.uk

1.4 Emergency telephone

+ 44 1473 724056 (NOT 24HRS - 8am - 5.30pm, Monday Friday) In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.
National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit, Claremont Place, Newcastle-upon-Tyne NE1 4LP
Emergency number 0844 892 0111 (UK only, 24/7, healthcare professionals only)

Section 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]: Not classified

2.2 Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]: Not applicable.

2.3 Other hazards
Other hazards: PBT/vPvB assessment data: Not applicable.

Section 3: Composition/information on ingredients

3.1 Substances
Not applicable

3.2 Mixtures
This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II.

Section 4: First aid measures

4.1 Description of first aid measures

Additional advice
First aider – pay attention to self-protection. For PPE, see also Section 8. Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Treat symptomatically. In case of doubt or persistent symptoms, always seek further medical advice.

Inhalation
Remove person to fresh air and keep comfortable for breathing. In case of doubt or persistent symptoms, always consult a doctor.

Skin contact
Remove contaminated clothing and shoes. Wash off with soap and water. Get medical attention if irritation develops and persists.

Contact with eyes
Rinse immediately carefully and thoroughly with eye-bath or water. If eye irritation persists, seek medical attention/advice.

Ingestion
Do NOT induce vomiting. Rinse with water. Seek medical attention/ advice if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation
Not expected to present a significant hazard under anticipated conditions of normal use.

Skin contact	Not expected to present a significant hazard under anticipated conditions of normal use.
Contact with eyes	Not expected to present a significant hazard under anticipated conditions of normal use.
Ingestion	Not expected to present a significant hazard under anticipated conditions of normal use.

4.3 Indication of any immediate medical attention and special treatment needed
No data available.

Section 5: Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Water spray, alcohol resistant foam, carbon dioxide (CO2), dry extinguising powder.
Unsuitable extinguishing media	Strong water jet.

5.2 Special hazards arising from substance or mixture

Specific hazards	No data available.

5.3 Advice for firefighters

Firefighting instructions	Special protective equipment for firefighters. In case of fire: wear suitable protective equipment and self contained breathing apparatus. Use water spray or fog for cooling exposed containers. Evacuate personnel to a safe area. Provide adequate ventilation.
Other information:	Do not allow run-off from firefighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

For non-emergency personnel	Evacuate area. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equpment to use, see Section 8. Stop leak if safe to do so. Avoid contact with eyes, skin and clothing. Do not breathe in vapours/ dust.

6.1.2 For emergency responders **For emergency responders**	Ensure procedures and training for emergency decontamination and disposal are in place. Use personal protective equipment as required. Concerning personal protective equipment to use, see Section 8.
6.2 Environmental precautions	Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up — Stop leak if safe to do so. Dam up the solid spill. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Large spills: scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Reference to other sections

Concerning personal protective equipment to use, see Section 8. Concerning disposal elimination after cleaning, see Section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling — Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment.

Hygiene measures — Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities

Storage conditions — Keep container tightly closed in a cool, well-ventilated place. Keep only in the original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not store near or with any of the incompatible products listed in Section 10.

7.3 Specific end use(s) — Not applicable.

Section 8: Exposure controls / personal protection

8.1 Control parameters

Additional information — Personal air monitoring: Room air monitoring. Recommended monitoring procedures

8.2 Exposure controls

Engineering measures — Provide adequate ventilation. Eye wash bottle with pure water. Organisational measures to prevent/limit releases, dispersion and exposure. See also Section 7.

Personal protective equipment	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific work place.
Hand protection	Protective gloves (EN374). The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Eye protection	Safety glasses with side-shields (EN 166).
Body protection	Use personal protective clothing as required.
Respiratory protection	Effective dust mask.
Thermal hazard protection	Not required for normal conditions of use. Use dedicated equipment.
Environmental exposure controls	Avoid release to the environment. Comply with relevant environmental protection legislation in force.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Solid
Appearance	Solid
Colour	Grey. Black.
Odour	Sulphur slightly
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting / freezing point	No data available
Freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	Not applicable
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not combustible
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Density	100-200 kg/m^3 (DIN 18174)

Solubility	Water: No data available
Partition coefficient n-octanol/water	No data available
Kinematic viscosity	No data available
Dynamic viscosity	Not applicable.
Explosive properties	Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	No data available. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosion limits	No data available.

9.2 Other information
No data available.

Section 10: Stability / reactivity

10.1 Reactivity
Reference to other sections: 10.4 & 10.5

10.2 Chemical stability
Stable at ambient temperature and under normal conditions of use.

10.3 Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid
No information available. See also section 7.

10.5 Incompatible materials
No information available. See also section 7.

10.6 Hazardous decomposition products
Reference to other sections: 5.2

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	Not Classified (Based on available data, the classification criteria are not met).
Skin corrosion/irritation	Not classified (Based on available data, the classification criteria are not met). pH: No data available
Serious eye damage/irritation	Not classified (Based on available data, the classification criteria are not met.). pH: No data available
Respiratory or skin sensitisation	Not classified (Based on available data, the classification criteria are not met).
Germ cell mutagenicity	Not classified (Based on available data, the classification criteria are not met).

Carcinogenicity	Not classified (Based on available data, the classification criteria are not met).
Reproductive toxicity	Not classified (Based on available data, the classification criteria are not met).
STOT-single exposure	Not classified (Based on available data, the classification criteria are not met).
STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met).
Aspiration hazard	Not classified (Based on available data, the classification criteria are not met).
Other information	Symptoms related to physical, chemical and toxicological characteristics: For further information see section 4.

Section 12: Ecological information

12.1 Toxicity

According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as “dangerous for the environment”.

12.2 Persistance and degradability

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Persistance and degradability: No data available.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	No data available

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13. Disposal considerations

13.1 Waste treatment methods

Product/packaging disposal recommendations:	Handle with care. Safe handling: see Section 7. Refer to manufacturer/ supplier for information on recovery/recycling. Dispose of contaminated materials in accordance with current regulations.
Additional information:	Delivery to an approved waste disposal company.
Further ecological information:	Do not allow to enter into surface water or drains.
European Waste Catalogue (2001/573/EC, 74/442/EEC, 91/698/EEC):	Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Section 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	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 No data available
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 or MARPOL 73/78 and the IBC Code
IBC No data available

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 on the REACH candidate list

15.2 Chemical safety assessment: No data available.

Section 16: Other information

Indication of changes: Safety datasheet section updated: 14.6

Abbreviations and acronyms:

ADN: Accord européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
CLP: Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
LEL: Lower Explosive Limit/Lower Explosion Limit
UEL: Upper Explosive Limit/Upper Explosion Limit
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
BTT - Breakthrough time (maximum wearing time)
DMEL = Derived Minimal Effect Level
DNEL: Derived No-Effect Level (REACH)
EC50 = Median Effective Concentration
EL50 = Median Effective Level
ErC50 = EC50 in terms of redction of growth reate
ErL50 = EL50 in terms of reduction of growth rate
EWC = European waste catalogue
LC50 = Median lethal concentration
LD50 = Median lethal dose
NA = Not applicable
NOEC = No observed effect concentration
NOEL = No observed effect level
NOELR = No observed effect loading rate
NOAEC = No observed adverse effect concentration
NOAEL = No observed adverse effect level
NOS: Not otherwise specified
OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
PNEC = Predicted No Effect Concentration
Quantitative structure-activity relationship (QSAR)
STOT = Specific Target Organ Toxicity
TWA = time weighted average
VOC = Volatile organic compounds
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)
Sources of key data: Supplier SDS; European Chemicals Agency (ECHA), LOLI.

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