Type:
Compression and transfer

fenoquímica

Reference:	Colour:	Type of moulding:
355	Natural	Compression

References and properties of trials	Units	Norms of the trials	Results
Physical properties			
Apparent density:	g/cc	NFT 51003	0,50-0,55
Specific gravity:	g/cc	ISO 1183	1,39
Shrinkage:	%	ISO 2577	0,60-0,70
Post shrinkage (168 h. at 110ºC):	%	ISO 2577	0,35
Water absorption after 24 h. at 23ºC:	mg	ISO 62	45
Mechanical properties			
Tensile strength:	MPa	ISO 527	35
Compressive strength:	MPa	ISO 604	235
Flexural strength:	MPa	ISO 178	75
Unnotched impact strength:	KJ/m^2	ISO 179	4
Notched impact strength:	KJ/m^2	ISO 179	1,9
Thermal properties			
Heat Distortion Temperature (method A):	ºC	ISO 75	160
Heat Distortion Temperature (method C):	ºC	ISO 75	115
Flammability (method BH):	index	IEC 707	BH2-10
UL classification-thickness: 3.2 mm: UL	index	UL 94	HB
classification-thickness: 1.6 mm:	index	UL 94	HB
Blistering temperature:	ºC	In-house method	200

The information here included corresponds to our experience: it is given as an orientation and in no case does it imply any responsibility for our part.

Date: 25-01-2019
Edition nº: 3

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www.fenoquimica.es

1. Identification of the substance/mixture and of the company/undertaking.

1.1 Product identifier

Product name: 355
Product type: Phenolic Resin.
CAS No.: N/A

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

Product use: Molding applications.

1.3 Details of the supplier of the safety data sheet.

Supplier: FENOQUIMICA S.A
Avda. Bertran i Güell, 64
08850 Gava (Barcelona)
Telephone: +34 93 638 22 88
Correo electrónico: asanchez@cssa.es

2. Hazards identification.

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) nº. 1272/2008(CLP/GHS)

Not classified.

Classification according to Directive 1999/45/CE (DPD)

Classification:	Not classified
Physical/chemical hazards:	Not applicable
Human health hazards:	Not applicable
Environmental hazards:	Not applicable

*See Section 16 for the full text of the R phrases or H statements declared above.

2.2 Label elements:

Signal word:	No signal word.
Hazard statements:	No known significant effects or critical hazards.
Precautionary statements:	-
Prevention:	Not applicable.
Response:	Not applicable.
Storage:	Not applicable.
Disposal:	Not applicable.

2.2. Label elements:

Supplemental label elements:

2.3 Other hazards:

Substance meets the criteria for: PBT according to Regulation (EC) No. 1907/2006 annex XIII	Not applicable
Substance meets the criteria for: vPvB according to Regulation (EC) No. 1907/2006 annex XIII	Not applicable
Other hazards which do not: result in classification	Unclassified hazard. Combustible dust.*

* Combustible dust when finely divided and suspended in air. Fine dust clouds may form explosive mixtures with air. Product can explode if dust cloud is formed and ignited.
Minimize airborne dust. Eliminate all fire/ignition sources including static discharges near product/package. Prevent dust accumulation. Refer to Handling Section 7 of the MSDS for more information.
Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

3. Composición / información de los componentes.

Product/ingredient	Identifiers	% by weight	Classification 67/548/EEC	Type Regulation 1272/2008
Methenamine	n. CE 202-905-8 CAS:100-97-0	>=5 <10	R11 R43	Flan. Sol 2 H228 Skin Sens.H317

See Section 16 for the full text of the R phrases or H statements declared above.
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.
Occupational exposure limits, if available, are listed in Section 8.

4. First aid measures:

4.1 Description of first aid measures:

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person in conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first aid personnel: No action shall be taken involving any personal risk or without suitable training.

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

Potential acute health effects:
Eye contact: No known significant effects of critical hazards.
Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact: No known significant effects of critical hazards.
Ingestion: No known significant effects of critical hazards.

Over-exposure signs/symptoms:

Eye contact: No specific data.
Inhalation: No specific data.
Skin contact: No specific data.
Ingestion: No specific data.

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

Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments: no specific treatment.

5. Firefighting measures.

5.1 Extinguishing media
Medios de extinción apropiados: utilice agua en aerosol o neblina, químicos secos, espuma o CO2.
Unsuitable extinguishing media: do not use water jet.

5.2 Special hazards arising from the substance or mixture:
Hazards from the substance or mixture: combustible solid that burns. Fine dust clouds may form explosive mixtures with air.
Hazardous thermal decomposition products: decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, metal oxide/oxides.

5.3 Advice for firefighters:
Special protective actions for fire-fighters: promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters: fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents

Additional information: organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion.

6. Accidental release measures.

6.1 Personal precautions, protective equipment and emergency procedures.

For non-emergency personnel: no action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Minimize airborne dust and eliminate all fire/ignition sources. Clean up spill as soon as possible using procedures described below. Avoid breathing dust. Put on appropriate personal protective equipment.
For emergency responders: see Section 8

6.2 Environmental precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill: move containers from spill area. Do not use air hoses for cleaning. Minimize dry sweeping to avoid generation of dust clouds. Vacuum dust-accumulating surfaces and remove to a chemical disposal area. Use spark-proof tools and explosion-proof equipment. Vacuums with explosion-proof motors should be used. Dispose of via a licensed waste disposal contractor.
Large spill: move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid creating dusty conditions and prevent wind dispersal. Do not use air hoses for cleaning. Minimize dry sweeping to avoid generation of dust clouds. Vacuum dust-accumulating surfaces and remove to a chemical disposal area. Use spark-proof tools and explosion-proof equipment. Vacuums with explosion-proof motors should be used. Dispose of via a licensed waste disposal contractor.
See Section 1 of SDS for emergency contact information and Section 13 of SDS for waste disposal.

6.4 Reference to other sections:

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

7. Handling and storage.

7.1 Precautions for safe handling.

Protective measures: Put on appropriate personal protective equipment (see Section 8 of SDS). Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges.
Combustible dust handling procedures: Combustible dusts at sufficient concentrations should be avoided. Follow US NFPA Standard 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids". UK HSE Guidance HSG 103, approved Codes of Practice (ACOPS) established for Explosive Atmospheres under the ATEX Directive 1999/92/EC for worker protection and ATEX Directive 94/9/EC that regulates equipment and protection systems used in potentially explosive atmospheres or other national guidance on safe handling of combustible dusts. Train workers in the recognition and prevention of hazards associated with combustible dust in the plant.
Minimize airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame. Control sources of static electricity. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. Use continuous suction at points of dust generation to capture and minimize the accumulation of dusts. Particular attention should be given to overhead and hidden horizontal surfaces to minimize the probability of a secondary explosion. (See NFPA Standard 654).
Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Separate from oxidizing materials.

7.3 Specific end use(s):

Recommendations: Not available.
Industrial sector specific solutions: Not available.

8. Exposure controls/personal protection.

8.1 Control parameters:
Occupational exposure limits:
No exposure limit value known.
Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 14042, European Standard EN 482 and European Standard EN 689.
DNEL/DMEL Summary: not available.
PNEC Summary: not available.
8.2 Exposure controls
Appropriate engineering controls: no special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
Individual protection measures:
Hygiene measures: wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate technique should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection: safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection: appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved. Respiratory protection: if indicated by the assessment.
Environmental exposure controls: emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties.

9.1 Information on the basic physical and chemical properties.

Boiling point :	Not available
Specific weight (H20=1):	1.4
Vapor pressure (mmHg):	Not available
Solubility in water:	Not available
Reactivity in water:	Not available
Appearance/odor:	Granular with powder /characteristic.

9.2 Other information

No additional information.

10. Stability and reactivity:

10.1 Reactivity:

Stable under normal conditions.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid:

Avoid the creation of dust when handling and avoid all possible sources of ignition. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

10.5 Incompatible materials:

Oxidizing materials / acids (no specific data)

10.6 Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be released.

11. Información toxicológica:
11.1 Información sobre efectos toxicológicos

Product	Result	Species	Dose	Exp.
Methenamine	LD50 oral LD50 dermal	Rat Rat	>20000 mg/Kg >2000 mg/Kg	

Toxicity estimates: Not available.
Irritation / Corrosion:
Skin: Not available.
Eyes: Not available.
Respiratory: Not available.
Sensitization: Not available.
Mutagenicity: Not available.
Carcinogenicity: Not available.
Reproductive toxicity: Not available.
Teratogenicity: Not available.
Specific target organ toxicity (repeated or single exposure): not available.
Aspiration hazard: Not available.
Potential acute health effects:
Eye contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Ingestion: Lexposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Symptoms related to the physical, chemical and toxicological characteristics:
Eye contact: No specific data.
Inhalation: No specific data.
Skin contact: No specific data.
Ingestion: No specific data.
Delayed and immediate effects and also chronic effects from short and long term exposure:
Short term exposure.
Potential immediate effects: Not available.
Potential delayed effects: Not available.

Long term exposure.

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Potential chronic health effects:

Conclusion: Not available.

General: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

12. Ecological information.

12.1 Toxicity:

Product	Result	Species	Exp.
Methenamine	Acute LC50 49800000µg/l fresh water	Fish Fathead minnow	96h
	Acute EC50 36000000µg/l fresh water	Aquatic invertebrates Water flea	48h

12.2 Persistence and degradability:

Conclusion : Not available

12.3 Bioacumulative potential : Not available

Product	Log Pow	BCF	Potential
Methenamine	-2.018		Low

12.4 Mobility in soil:
Soil/water partition coefficient (KOC): Not available
Mobility: Not available
12.5 Resultados de la valoración PBT y mPmB
PBT: P: Not available
B: Not available
T: Not available
mPmB: mP: Not available
mB: Not available
12.6 Other adverse effects:
No known significant effects or critical hazards.

13. Disposal considerations.
13.1 Waste treatment methods.
Product
Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste: within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
Packaging
Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information.

Regulaciones Information	14.1 nº UN	14.2 UN proper transporte de NU	14.3 Clase(s) hazard class(es)	14.4 Packaging group
ADR/ADN		Not dangerous goods		
RID		Not dangerous goods		
ICAO/IATA		Not dangerous goods		
IMO/IMDG		Not dangerous goods		

14.5 Environmental hazards: Not described.
14.6 Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. Regulatory information.
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.
EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV- List of substances subject to authorization.
Mutagen: Not listed
Carcinogen: Not listed
Toxic to reproduction : Not listed
PBT: Not listed
mPmB: Not listed
Other EU regulations
REACH Status: the substance(s) in this product has (have) been Pre-Registered and/or Registered, or are exempted from registration, according to Regulation (EC) No. 1907/2006(REACH).
15.2 Chemical Safety Assessment:
This product contains substances for which Chemical Safety Assessments are still required.

16. Other information:

Abbreviations and acronyms:

ATE: Acute Toxicity Estimate.
CLP: Classification, Labelling and Packaging Regulation.
DNEL: Derived No Effect Level.
DMEL: Derived Minimal Effect Level.
PNEC: Predicted No Effect Concentration.
RRN: REACH Registration Number.
PBT: Persistent, Bioaccumulative and Toxic.
MPMP: Very Persistent and Very Bioaccumulative.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 CLP/GHS.

Full text of abbreviated H statements:
H 228: Flammable solid.
H 317: May cause an allergic skin reaction.
Full text of classifications : **(CLP/SGA)**
Flam.Sol.2, H228 Flammable solids Category 2
Skin.Sens.1 , H317 Skin sensitization Category 1

Full text of abbreviated R phrases:
R11: Highly flammable.
R 43: May cause sensitization by skin contact.

Full text of classifications (DSD/DPD):
F- Highly flammable.