

SAFETY DATA SHEET

Issuing Date 05-Nov-2015 Revision Date 05-Nov-2015 Revision Number 0

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name ABS-M30™ / P430™ ABS / P430XL™ ABS / ABSplus™ Model Material

Synonyms ABS

SSYS Part Number 400626-0001

Recommended Use Additive manufacturing

Company No information available.

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SECTION 2. HAZARDS IDENTIFICATION

GHS-Classification

Health Hazard

This mixture is not classified as dangerous according to Korean legislation

Physical Hazards

None

Environmental Hazards

GHS Label elements, including precautionary statements

Signal Word None

Precautionary Statements

Other hazards which do not result in classification

No information available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
ABS resin	9003-56-9	>96
Colorants	-	<4

Only non-hazardous and/or USP Class VI colorants are used. No leachable/extractable or heavy metal colorants are used. Some of the colorants, such as titanium dioxide and carbon black, have dust hazards. These hazards are not germane as the colorants are encapsulated in a fully reacted polymer.

SECTION 4. FIRST AID MEASURES

A. Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a

physician.

B. Skin Contact Wash off with water. If molten polymer contacts the skin, cool rapidly with cold water. Do

not attempt to peel cured polymer from skin. Removal of solidified molten material from skin

requires medical assistance.

C. Inhalation Move to fresh air. If symptoms persist, call a physician.

D. Ingestion Drink plenty of water. Do NOT induce vomiting. If symptoms persist, call a physician.

E. Most Important

Symptoms/Effects

No information available.

F. Indication of immediate medical Treat symptomatically.

attention and special treatment needed, if necessary.

SECTION 5. FIRE-FIGHTING MEASURES

A. Suitable Extinguishing Media Water. Dry powder. Foam. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media No information available.

B. Specific Hazards Arising from the Chemical Burning produces obnoxious and toxic fumes. Aldehydes. Carbon

monoxide. Carbon dioxide (CO2). Hydrogen cyanide.

C. Protective Equipment and Precautions for Firefighters Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

B. Environmental Precautions Prevent further leakage or spillage if safe to do so.

C. Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal.

SECTION 7. HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practice. Wear personal A. Handling

protective equipment. Ensure adequate ventilation. Prevent contact with molten product. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly

after handling.

B. Storage Keep tightly closed in a dry and cool place.

Incompatible Products Strong oxidizing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

A. Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

B. Engineering Measures

Ensure adequate ventilation, especially in confined areas.

C. Personal Protective Equipment

Respiratory Protection No protective equipment is needed under normal use conditions.

Eye/Face Protection Safety glasses with side-shields. For handling molten material, use of a faceshield is

recommended.

Hand Protection When handling hot material, use heat resistant gloves.

No protective equipment is needed under normal use conditions. **Skin and Body Protection**

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance Various

Physical State Solid (compressed)

B. Odor None

C. Odor Threshold No data available D. pH No data available No data available E. Melting Point/Range No data available F. Initial Boiling Point **Boiling Point/Boiling Range** No data available G. Flash Point Not determined H. Evaporation Rate No data available I. Flammable Properties Not applicable

Upper No data available Lower No data available J. Flammability Limits in Air

No data available. K. Vapor Pressure

L. Solubility No information available. M. Vapor Density No data available. N. Relative density No data available No data available. O. Partition Coefficient: n-octanol/water P. Autoignition Temperature No data available

Q. Decomposition Temperature No data available R. Viscosity No data available S. Molecular Weight No data available No data available. T. Specific Gravity U. VOC Content (%) No data available

SECTION 10. STABILITY AND REACTIVITY

Stable under normal conditions. A. Stability

B. Hazardous Reactions None under normal processing.

C. Conditions to Avoid Incompatible products.

Strong oxidizing agents. **D. Incompatible Products**

E. Hazardous Decomposition Products Carbon oxides. Aldehydes. Hydrogen cyanide.

SECTION 11. TOXICOLOGICAL INFORMATION

A. Information on the likely routes of exposure

Inhalation Exposure to volatiles released during hot processing may cause

respiratory tract irritation

Eve Contact Contact with eves may cause irritation.

Skin Contact Contact with molten material will cause thermal burns. Not an expected route of exposure. Ingestion may cause Ingestion

stomach discomfort.

B. Delayed and immediate effects and also chronic effects from short and long term exposure

No information available. Irritation No information available. Corrosivity Sensitization No information available. **Carcinogenic Effects** No information available. **Mutagenic Effects** No information available. **Reproductive Toxicity** No information available. STOT - single exposure No information available. STOT - repeated exposure No information available.

Target Organ Effects Eves. Skin.

No information available **Hazardous to the Aquatic Environment Aspiration Hazard** No information available.

C. Numerical measures of toxicity

Product Information

LD50 Oral No information available. **LD50 Dermal** No information available.

Inhalation

Gas No information available. **Dust/Mist** No information available. Vapor No information available.

Component	IARC
ABS resin	Group 3
9003-56-9 (>96)	

SECTION 12. ECOLOGICAL INFORMATION

A. Aquatic and Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in **Ecotoxicity Effects**

waste water treatment plants

B. Persistence and Degradability No information available.

No information available. C. Bioaccumulation

No information available. D. Mobility

E. Other Adverse Effects No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

A. Waste from Residues / Unused Dispose of in accordance with local regulations.

Products

B. Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal

SECTION 14. TRANSPORT INFORMATION

A. UN-Number

B. Proper Shipping Name

C. Hazard Class

D. Packing Group

E. Marine Pollutant

Not regulated.

Not regulated.

Not regulated.

Not regulated.

SECTION 15. REGULATORY INFORMATION

A. Industrial Safety and Health Law:

Not applicable

B. Toxic Chemicals Control Law

Not applicable

C. Dangerous Material Safety Control

Not applicable

D. Wastes Management

Dispose of in accordance with local regulations

E. Other Regulations

RESTRICTIONS - REACH TITLE VIII No information available.

International Inventories

TSCA Complies

EINECS/ELINCS DSL/NDSL PICCS ENCS IECSC AICS KECL -

<u>Legend</u>

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

SECTION 16. OTHER INFORMATION

A. Prepared By Product Stewardship

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B. Issuing Date 05-Nov-2015

C. Revision Date 05-Nov-2015

Revision Number 0

D. Other InformationNo information available

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End of Safety Data Sheet