

SAFETY DATA SHEET

TECHNYL[®] A 50H1 NAT

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Date : 2008/04/23

Version : A.01

Cancel and replaces version : 1.0

1. Product and company identification

- a. Product Name: TECHNYL[®] A 50H1 NAT
- b. Usage and Restriction
 - o Recommended usage: Injection molding (Semi-processed products)
 - o Restriction: Industrial use only
- c. Maker/Supplier/Distributor
 - o Maker: RHODIA POLYAMIDE Co., LTD
 - o Add.: 3rd F/L KANGNAM B/D, 1321-1, SEOCHO-DONG, SEOCHO-GU, SEOUL, KOREA
 - o Emergency Number: +82 52 231 0900 / +82 2 2108 4901
 - o Responsible: PS team

2. Hazard identification

- a. Hazard classification: Not classified (by calculation according to the GHS method)
- b. Hazard statement:
 - o Pictogram: None
 - o Signal Word: WARNING
 - o Hazard Statement:
 - H332 Harmful if inhaled.
 - o Precautionary statement
 - Prevention
 - P260 Do not breathe dust/fume/gas/mist/vapors/spray
 - P270 Do not eat, drink or smoke when using this product
 - P280 Wear protective gloves/protective clothing/eye protection/face protection
 - P284 Wear respiratory protection
 - Response
 - P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 - P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
 - P304 +P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present.
 - P332+P313 IF skin irritation occurs: Get medical advice/ attention
 - Storage
 - P410+P403 Protect from sunlight, Store in a well-ventilated place
 - Disposal
 - P501 Follow achievable methods for the disposal of a substance and package.
 - o NFPA: - HEALTH: 1, - FIRE: 1, - REACTIVITY: 0

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- c. Further information: Although classified according to EC criteria (calculated by the conventional method), this product is exempt from labeling according to article 9.3 of Annex 6 of Directive 67/548/EEC, 28th ATP.

3. Composition / information on ingredients

Chemical name	CAS no	EINECS	Content (%)	Hazard
POLYAMIDE 66	32131-17-2			
Melamine cyanurate	37640-57-6	253-575-7	< 10	R20
Carbon Black	1333-86-4	215-570-8	< 1	Carcinogen Cat. 3
Other additives	Confidential			
Total			100	

4. First-aid measures

- a. Inhalation: Quickly move the person away from the contaminated area. Make the affected person rest. If necessary seek medical advice.
- b. Skin contact: Remove all contaminated clothing and footwear. Wash immediately and thoroughly for a prolonged period (at least 15 minutes). In case of inflammation (redness, irritation, ...) obtain medical attention.
- c. Eye contact: Immediately rinse with plenty of running water for a prolonged period, (at least 15 minutes) whilst keeping the eyes wide open if irritation persists, consult a doctor.
- d. Ingestion: NEVER attempt to induce vomiting. Do not give anything to drink. If necessary seek medical advice.
- e. Major symptoms/effect of Acute and Chronic toxicity: No data
- f. Information for emergency measure and doctor: No data

5. Fire-fighting measures

- a. Extinguishing method:
- o Suitable: All extinguishable agents can be used (water, foam, powders, carbon dioxide, sand, etc)
 - o Not suitable: None. If there is a fire close by, use suitable extinguishing agent
- b. Specific hazards: Harmful or toxic vapors are released. (Carbon oxide & Nitrogen oxide)
Risk of fire spreading due to the flow of liquid which is already alight
- c. Specific fire fighting methods: Cool the molten products.
- d. Protection of fire-fighters: Self-contained breathing apparatus

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6. Accidental release measures

- a. Personal precautions: Prevent the product from spreading into the environment
- b. Environmental precautions: This product does not present any particular risk for the environment.
- c. Method for cleaning up
 - Recovery: Recover the product by vacuuming/shoveling or swelling.
 - Cleaning/Decontamination: Sweep

7. Handling and storage

- a. HANDLING
 - o Suitable: All extinguishable agents can be used (water, foam, powders, carbon dioxide, sand, etc)
 - o Technical measure: Does not require any specific or particular measures.
 - o Safe handling advice: Handle and use in accordance with good occupational hygiene and safety practice.
- b. STORAGE
 - o Technical measure: Does not require any specific or particular technical measures.
 - o Storage condition:
 - Away from any flames.
 - Protected from humidity and bad weather conditions.
 - o Incompatible products: Oxidizing materials

8. Exposure controls / personal protection

- a. Limit of exposure

Substances	ACGHI
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- b. Engineering measures: Extract to remove vapors at their source
- c. Personal protection equipments
 - o Respiratory: use dust protective mask
 - o Eye: Wear safety goggle.
 - o Hand: Wear chemically protective gloves
 - o Body: Wear dust protective wear
- d. Work Practice Controls: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:
 - o Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
 - o Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet
 - o Wash exposed skin promptly to remove accidental splashes or contact with this material.

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9. Physical and chemical properties

a. Surface aspect	Ivory pellet
b. Smell	N/A
c. pH	N/A
d. Melting range	255~265 °C
e. Boiling temp.	N/A
f. Flash point	350 °C (CC)
g. Vaporized rate	N/A
h. Inflammability.	Product will burn under fire conditions
i. Ignition / Exposure range	N/A
j. Vapor pressure	N/A
k. Solubility	Insoluble in water / organic solvent
l. Vapor density	N/A
m. Specific gravity	1.17
n. n-Octanol/water distribution factor	N/A
o. Self ignition temp.	> 450 °C
p. Degradation temp.	> 350 °C
q. Viscosity	2.5
r. Molecular weight	No evidence

10. STABILITY AND REACTIVITY

- a. Stability: Stable under normal conditions of use
- b. Possibility of hazard reaction: Don't polymerize
- c. Conditions to be avoided: Remove heat, fire, and heat sources
- d. Materials/Chemicals to be avoided: Oxidizing material
- e. Hazardous substances from decomposition (Thermal)
 - o Carbon Oxides (CO+CO₂)
 - o Nitrogen Oxides (NO_x)

11. Toxicological information

- a. Acute Eye Irritation: Not classified (by calculation according to the GHS method)
- b. Acute Skin Irritation: Not classified (by calculation according to the GHS method)
- c. Acute Respiratory Irritation: Not classified (by calculation according to the GHS method)
- d. Acute Inhalation Toxicity: Not classified (by calculation according to the GHS method)

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|-------------------------|---|
| e. Acute Oral Toxicity: | Not classified (by calculation according to the GHS method) |
| f. Chronic Toxicity: | No test data found for product. |
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12. Ecological information

- a. Mobility
- Precipitation: Slightly soluble product, readily forms deposits.
 - Expected behavior of the product: Ultimate destination of the product: SOIL and SEDIMENT.
- b. Biodegradability
- Ultimate aerobic biodegradability: Not biodegradable (internal evaluation)
- c. Bioaccumulation
- Octanol/Water partition coefficient: Not potentially bioaccumulable (internal evaluation)
- d. Eco-toxicity
- Effect on the aquatic environment: Due to its physical state, this product does not have any known adverse effect on the aquatic organism
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13. Disposal considerations

- a. Residue from product
- Destruction/Disposal: Recycle the material as far as possible. If it proves necessary to grind the product in order to recycle it, take all necessary precautions to prevent the formation and spread of dust.
 - Non recycled product: May be disposed of with non hazardous industrial waste. Incinerate at a licensed installation.
Dispose of in accordance with relevant local regulations.
- b. NOTE: The user's attention is drawn to the possible existence of local regulations regarding disposal
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14. Transport information

- a. International regulations
- Rail/road (RID/ADR): NOT restricted
 - Sea (IMO/IMDG): NOT restricted
 - Air (ICAO-IATA): NOT restricted
- b. NOTE: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

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15. Regulatory information

- a. Labeling:
- Korea regulations: Mandatory labeling (self-classification) of hazardous preparations:
NOT APPLICABLE
 - EC regulations: Mandatory labeling (self-classification) of hazardous preparations:
NOT APPLICABLE
- b. R Phases: –
- c. S Phases: S2, S13, S36/37/39
- d. Further data: Although classified according to EC criteria (calculated by conventional method), this product is exempt from labeling according to article 9.3 of Annex 6 of Directive 67/548/EEC, 28th ATP.
- e. Further information: Packing confirms to Directive 94/62/EEC et to Decree 98-638.
- f. NOTE: The regulatory information given above only indicators the principle regulations specifically applicable to the product described in the Safety Data Sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. Other information

- a. Uses
- Prohibited use: For special application e.g. in medicine, surgery, or the food industry, obtain further information from the manufacturer.
 - Registration numbers: The polymers are not listed in the EINECS inventory.
All the constituent of this preparation are registered in EINECS inventory.
- b. Update: This sheet was updated (below paragraph was changed) to meet KOREA Government law and GHS requirements.
- 2. Hazard identification
 - 5. Fire-fighting measures
 - 8. Exposure controls / personal protection
 - 9. Physical and chemical properties
 - 11. Toxicological information
 - 15. Regulatory information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The Information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the products. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products. This information is not exhaustive. This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the products, do not exist. This is solely his responsibility.