

# Material Safety Data Sheet

## 1 Product name and Company information

Company name : Nippon Takkyu Co.,Ltd  
 Zip code : 101-0024  
 Address : 1-2-8 Kanda Izumi-Cyo, Chiyoda-Ku, Tokyo  
 Responsible Department : Planning department  
 Telephone no. : 03-3862-0911  
 FAX : 03-3862-0920  
 Emergency contact : Same as above  
 Date of Issue or Revised : June 15, 2007

Product name **FINE ZIP**

## 2 Composition and Ingredients' Information

Single product/Mixture classification : Mixture  
 Chemical name : Acrylic copolymer aqueous emulsion  
 Ingredients and contents

Ingredient	Official Gazette Ref. No.	CAS No.	
Natural rubber	: Not applicable		
Acrylic copolymer	: 6-809		
Ammonia	: 1Class 314	1336-21-6	
Water	: Not applicable	7732-18-5	35%

## 3 Hazards and Toxicity Summary

Most important hazards : Although contains about 0.6% of ammonia, there is hardly any effect on the environment at lower concentrations  
 Toxicity : No special hazards  
 Ecological influence : No data  
 Physical and chemical hazards : No data  
 Classification name : Does not correspond to classification standards

## 4 First aid measures

Inhalation : Shift the victim immediately to fresh air. Keep warm and allow to rest. Quickly seek medical assistance.  
 Skin contact : Thoroughly clean with soap. In case of itching or irritation symptoms, quickly seek medical assistance.  
 Eye contact : Wash the face with clean water at least for 15 minutes, and seek medical assistance.  
 Ingestion : Thoroughly rinse the inside of the mouth with water, and immediately seek medical assistance.

## 5 Fire-fighting measures

Fire extinguishing agents	Water, reinforced liquid, foam extinguisher, powder extinguishing agent etc
Special fire-fighting methods	Though this material is as such not flammable, the residual dry matter after evaporation of water is combustible. During combustion, extinguish the fire using a fire extinguishing agent aiming at the fire source. Cool the surroundings by water spray to avoid risk of spreading of fire.
Protection for fire-fighting	Wear protective gears without fail during fire-fighting operation.

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## 6 Leak measures

Caution for human body	To prevent exposure, carry out operation wearing protective gear, and restrict entry of unauthorized personnel in the vicinity of leakage site.
Caution for environment	Take precaution against discharge into public water regions, rivers, and lakes. In case of discharge, if required, immediately contact such as police station, fire station, local pollution control board, river management bureau, waterworks bureau, public health centre, agricultural department and fishery department etc.
Removal methods	For small amounts, mop up with cotton waste etc. For large quantities, as far as possible, collect the leaked liquid in tightly closed containers, and recover the residual liquid by absorbing with inactive absorbents such as soil, sand, diatom earth, saw dust etc.
Prevention of secondary fire	Quickly remove the nearby ignition sources, and arrange for fire extinguishing materials.

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## 7 Handling and Storage

Handling	
Technological measures	Handle in well-ventilated areas.
Safe handling precautions	Wear suitable protective gear. Work as per related regulations.
Caution	Provide thorough ventilation when handling indoors. When installing ventilation equipment, use non-explosion type equipment.
Storage	
Proper storage conditions	Avoid freezing and sunlight, and keep indoors. Do not store below 5°C or above 40°C. To prevent skin formation, tightly close after use, and store.

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## 8 Exposure controls and protective measures

Facilities	Handle in places provided with sealed devices or equipments, or local or full ventilation equipments.
Control concentration	Not specified
Permissible concentration	Not specified
Japan Association of Industrial Health	No mention
Protective tools	
Breathing protection	Protective mask
Hand protection	Protective gloves
Eye protection	Protective goggles (usual type goggles, usual type goggles with side plate)
Skin and body protection	Protective shoes, Long-sleeve protective clothing etc.

## 9 Physical and chemical properties

Physical state

Form	Emulsion
Color	Milky white
Specific temperature/temperature range where physical state changes	
Boiling point	About 100°C
Odour	Ammonia odour
Flash point	No data
Specific gravity	0.97 (20°C)

## 10 Stability and Reactivity

Stability	Stable under usual conditions of handling
Reactivity	No reactivity
Hazardous decomposition products	No data

## 11 Toxicity information

Acute toxicity	No information
Sensitization	No information

## 12 Ecological influence methods

Decomposition	No information at present
Accumulation	No information at present
Fish toxicity	No information at present

## 13 Disposal considerations

Entrust the treatment, by declaring the details of contents, to industrial waste treatment professionals permitted by municipal authorities. Waste liquid such as wash water etc., can be treated by flocculants, activated sludge etc. Further, comply with water pollution regulations, waste material processing and cleansing regulations. When disposing the containers, process as industrial waste or recover.

## 14 Transport

UN classification : Not applicable      UN No. : Not applicable

Special safety measures and conditions of transport

- Loading method : Ensure the lid of every container is tightly closed, and there are no leaks. Load without any damages to the containers due to tumbling, fall, friction etc., and ensure to prevent collapsing load.
- Caution : Carry protective gear and fire extinguishers.

## 15 Applicable regulations

Chemical management promotion Law	: Not applicable
Industrial Safety and Health Law	: Not applicable
Fire Protection Law	: Only if solidifies, articles 33, 34, article combustible solid matter
Ship transportation and storage of dangerous goods regulations	: Not applicable

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## 16 Other information

Enquiry on this MSDS            Nippon Takkyu Co.,Ltd

Since the evaluations of hazards and toxicity are not necessarily complete, handle with extreme caution.

- : This MSDS is required for using our products properly, and essential data are briefly compiled assuming usual conditions of handling.
- : Users should handle this product with their own responsibility while referring to this MSDS.
- : The information contained in this MSDS are based on the currently available data and the findings of the manufacturer, and no guarantee whatsoever is implied for these data or evaluations. Further, this MSDS is subject to revision based on the amendments to laws and new data.