

PRODUCT SAFETY DATE SHEET

Dated February 7th,2005

Data sheet No. MSJ-0379-01

1. chemical article name and the manufactures

Product name : Nite-Lite

Manufacturers : Kanbo Pras Corporation
Address(headquarters) : Kanbo Bldg.,1-6-9 Bakuro-machi, Chuo-ku, Osaka, Japan
Address (office) : 1-1-48, Miyuki-cho, Sabae-shi, Fukui, Japan
Department in the charge : Quality Control Department
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2. composition & components

sold or mixed article : mixed
chemical name : Polyester fibers + Polyvinyl Chloride resin
components & composition : polyester 13.0 - 20.0%,
PVC product 80 - 87% (PVC,plasticizer,stabilizer,etc.)

3. hazardous/toxic contents

most dangerous stuff : not contained
specific harmful stuff : by burning or heat resolution, harmful gas may be released. Main components of the gas are HCL,CO,CO2.
influence to environment : not seen
chemical analysis : not applicable.

4. emergency treatment

if the gas got into eyes : do not rub, but wash eyes for about 15 min.See a doctor if necessary.
if stuck on skin : wash with a lot of water with soap.If hurt or bad appearance,see a doctor.
if plenty breathed in : see a doctor.
if swallowed : see a doctor.

5. on fire

fire extinguish stuff : water,dry-chemical,carbon gas, bubbles,etc.
fire extinguish method : take fire-exinguish actions by using above stuff from the windward.
protection of extinguishers : essential to put on protection goods such as airbreather,unti-heat wears.
specific danger : harmful gas breaks out by burning or heat resolution.The main components are HCL,CO and CO2.

6. treatment if leaked or abandoned

- for human body : nothing in particular
- for environment : not to abandoned in rivers and etc
- collection method : collect scattered pieces into a suitable container

7. how to handle & store

handling (technical countermeasures & check points)

- : no fire around handling area, and clear objects to cause electric-static or shock spark.
- : at heat-welding rooms, ventilation is necessary as smoke by welding may cause uncomfortable breathing.
- : do not put the material directly into mouth.
- : be careful of electro-static shock or disturbance.
- . use it in a normal temperature whenever possible. high temperature might cause shrinkage and shape deterioration and low temperature might cause hardening and breakage by shock.
- . when transported or stored, the piled up rolls or materials might collapse and fall down, for which necessary precaution is to be taken.
- : PVC layer contains plasticizer, and when other PVC films are directly touched, it may cause plasticizer 's migration.

storing (technical countermeasures & conditions)

- : avoid direct sunshine, getting wet, drastic temperature changes, fire causes.

storing (packing materials)

- : paper,PE,etc.

8. prevention of dew drops and countermeasures

- density control : no regulation
- density allowance : no regulation
- countermeasures : no necessary
- protection goods : no necessary

9. physical & chemical characters

- physical condition : solid
- shape : in sheet shape(PVC film on top)
- colour : as ordered by buyer
- smell : nearly nil
- specific gravity : 1.4 (by data of PVC resin)
- melting point : nil (about 190 C by PVC resin data)
- melting by water : nil

10. stability & reaction

stability	: stable under normal conditions
reaction	: no data
dangerous/hazardous resolution components	: burning or heat resolution cause outbreak of bad gas, of which main components are HCL, CO & CO2.

11. information for harmful elements

acute poison	: not found
stimulus	: not found

12. influence on environments

: not found

13. remarks for abandoning

- harmful gas comes out when burnt. It will stimulate eyes and mucous membranes. Burn it at proper burning facilities with gas treatment device.
- when abandoned and buried, follow the related laws and regulations.
- if licensed companies or local government are doing it, it can be done by them.

14. remarks for transporting

: no special remarks, but follow the above article 7.

15. applicable laws

- fire law...some local regulation classify this as flammable. If so, follow the law.
- dumping law...this article is classified as plastic.

16. other information

The above contents are based on up-to-date available data, information, and as to physical and chemical characters, and hazardousness, we can not make any guarantee. Also, handling instruction are based on normal conditions, and for unusual usage and handling, take your necessary countermeasures.

- Referred books : 1 Safety data for chemical stuff (MSDS)-section 1 JIS...by JIS Association(2000)
2 Guidance to product safety data sheet by Japan Chemical Industrial association (1992)