

MATERIALS SAFETY DATA SHEET

IDENTIFICATION OF PRODUCT AND COMPANY

Product name : Monotub DD Column Former Ø152mm - Ø1200mm (various lengths)
Product description : Heat sealed and spirally wound PE coated paper, as supplied by TP
Supplier information : ITW VAC BV (Van Antwerpen Cartonnage)
H.A. Lorentzstraat 1, 3330 AB
Zwijndrecht, The Netherlands
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COMPOSITION / INFORMATION ON INGREDIENTS

Recycled Liquid Packaging Board containing:

- Polyethylene
- Printing ink (NOT containing heavy metals, such as Pb, Cd, Cr, Hg)
- Paperboard
- Aluminium Foil (food approved quality)
- Polyethylene copolymer
- Recycled Grey Cardboard

HAZARDS IDENTIFICATION

Health hazardous components : NONE
Environmental hazardous components : NONE
Fire hazardous components : Kraft liner, Grey Cardboard, Polyethylene

FIRST AID MEASURES

Inhalation : first aid is normally not required
Skin contact : first aid is normally not required
Eye contact : first aid is normally not required
Indigestion : first aid is normally not required

FIRE FIGHTING MEASURES

Fire fighting procedures:

- Use water spray to cool fire exposed surfaces and to protect personnel. Block the supply to the fire.
- Extinguishing Media: WATER, CARBON DIOXIDE, DRY CHEMICAL

Special fire precautions:

- Respiratory and eye protection required for fire fighting personnel.

Specific hazards:

- Classed as flammable. Combustion will evolve toxic and irritating vapours.
- Unusual Fire/Explosion Hazard: NONE

ACCIDENTAL RELEASE MEASURES

N.A.

HANDLING AND STORAGE

Storage temperature	: between +5 and +40 0C
Transport temperature	: between -18 and +40 0C
Loading/unloading temperature	: between -18 and +40 0C
Viscosity	: N.A.
Electrostatic accumulation	: N.A.
Usual shipping form	: several diameters per full truck (loose stacked)

Storage / handling, general notes

- Handle Column Formers with care.
- DO NOT handle, store or unload near an open flame, sources of heat or sources of ignition. Store in a dry place.
- Special attention should be paid to avoid inappropriate storage of Column Formers.

EXPOSURE CONTROLS / PERSONAL PROTECTION

No occupational exposure limits assigned. The handling of this product does not require special forms of personal protection.

VAC COLUMN FORMERS ARE ARTICLES WHICH UNDER NORMAL CONDITIONS OF USE, DO NOT POSE ACUTE OR CHRONIC HEALTH HAZARDS.

PHYSICAL AND CHEMICAL PROPERTIES

PE Melting point	: between 130-145 °C
Molecular formula	: [C ₂ H ₄] _n (typical molecular weight 100,000 - 500,000)
CAS No	: 9002-88-4
Vapour Pres	: N.A.
Vapour Density	: N.A.
Spec Gravity	: N.A.
PH	: N.A.
Evaporation Rate & Reference	: N.A.
Solubility in Water	: INSOLUBLE
Appearance and Odour	: ODOURLESS
Percent Volatiles by Volume	: N.A.

For further information, see our product specifications

STABILITY AND REACTIVITY

Polyethylene coating is stable, but breaks down slowly in UV light or sunlight. Materials to avoid are oxidizing acids, chlorinated/non-chlorinated hydrocarbons and solvents.

Stability Condition to avoid : N.A.

UPON HEATING TO EXTREME HIGH TEMPS, THE PRODUCT MAY EMIT IRRITATING VAPOURS.

TOXICOLOGICAL INFORMATION

Inhalation

- Vapours formed at elevated temperatures may cause irritation to eyes and respiratory tract
- Negligible hazard at ambient temperature (-18 to 40 °C)

Skin contact

- Exposure to hot material may cause thermal burns
- Negligible hazard at ambient temperature (-18 to 40 °C)

Eye contact

- Particulates may scratch eye surfaces or cause mechanical irritation

Indigestion

- Minimal toxicity

ECOLOGICAL INFORMATION

Solubility : the product is insoluble in water

Ecotoxicity : no data

Environmental degradability : No acute toxicity to aquatic and/or terrestrial organisms

DISPOSAL CONSIDERATIONS

In accordance with Federal, State and Local regulations, suitable routes of disposal are incineration in appropriate incinerators with energy recovery, disposal in landfills or appropriate recycling methods.

CO₂ emissions from different fuels

Category of fuel	Energy contents MJ/kg	Thermal efficiency	Gross CO ₂ emission kg/kg	Fossil fuel %	Real contribution to CO ₂ enrichment of atmosphere kg/ MJ	Ratio
Oil	41.0	0.9	3.1	100	0.084	1
Coal	28.5	0.8	3.0	100	0.132	1.57
Tetra Brik waste	21.6	0.8	1.9	33	0.036	0.42
Household waste	10.0	0.8	0.9	41	0.046	0.54

Source: G. Sundström AB, Malmö, Sweden

TRANSPORT INFORMATION

Land : this product is not regulated for road/rail transport
Inland waterways : this product is not regulated for inland waterways transport
Sea : this product is not regulated for sea transport
Air : this product is not regulated for air transport

REGULATORY INFORMATION

N.A.

OTHER INFORMATION

This information relates only to the specific material designated and may not be valid for such material in combination with any other materials or in any process other than usual. Such information is to the best of ITW VAC BV's (Van Antwerpen Cartonnage) knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.