PRINTING DIVISION

TECHNICAL DATA SHEETS FOR NC - BASE HIGH PIGMENT INK AND SOLVENTS FOR SUPERIOR PRINTING.

(NON TRANSFERABLE COLORS)

Plot No.: 24-25, Changodar Industrail Estate, Part-II, Nr. Dermocare Laboratory, Nr. Canal, Changodar, Ahmedabad-382213. Gujarat, India. CIN: U24119GJ1995PTCO24817

Tel.: (F) + 91-2717-655159 (O) + 91-79-26408143, 65215643 Email : flowinks@yahoo.co.in / info@flowinks.com Website : www.flowinks.com



An ISO 9001 & 14001 Certified Company

Technical Data Sheet

REF No.:	TDS/005
Rev. Date:	09/09/2015
Issue Date:	09/09/2015
Page No.:	1 to 6
Version No.	FP-001-1516

PRODUCT INDENTIFICATION: FLOW PREMIUM

Description:	Flow Premium Inks are highly pigmented and low (Common) Inks for both reverse and surface Pradding Flow Premium Inks Slip & Scuff Additive, give best results at high press speeds due to its excellent technical properties, Flow Prekind of packing structures (e.g. all kind of sealing structures). Flow Premium Inks are free from banned solvents (exclusively formulated with high Molecular weight, combination with Nitrocellulose.	rinting applications (the later after, with solvent Balance optimized to ellent chemistry management. emium M SERIES is suitable for all such as Horizontal, Vertical, Lap) Tike Toluene and MEK) and are
End Use:	Flow Premium Series is designed especially for p shopping bags, snack food and frozen food packagin	printing of carry bags, bread bags, ag etc.
	Flow Premium Series is tailored to run effortlessly well as on Flexo Stack Presses. These inks perfor Gravure printing machines also. Flow Premium inks are originally designed as very running CI Flexo presses with very fine anilox reconverted to Gravure Printing application by apprexender medium – this in-house dilution for Gravure divides a chunk of common ink advantage, but also saves a chunk of cand preliminary margins of supplier. The advantage to the flexibility in terms of ink strength adjurequirements.	highly pigmented - suitable for fast ollers. These inks could be easily opriately diluting with solvents and ravure printing not only provides tost in terms of transport / logistics ges mentioned here are in addition
Printing Machine	Note - 1: As mentioned above these inks originally for use on very high speed CI Flexo machines with vinks on Gravure presses we provide a conversion treducer and medium at the press side readies the in	ery fine Anilox rollers. To use these
	Note - 2: Gravure ready version of these inks, with suffix in front of them also are available.	separate code numbers having GR
	Note - 3: For very large customers and/or Export pu NC concentrate + Single Let Down Technology Varni	rpose the inks could be supplied as sh + Scuff and Slip Additive.
	Note - 4: as per the peculiar practices in certain cour without the addition of the BOPP Adhesion Promote the BOPP Adhesion Promoter at the Press Side as per Dyne Level etc.	r - In such cases the printer adds



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Printing Substrate		Polyethylene (Corona treated > 38 Dyne/cm) – Surface BOPP (Corona treated 38-42 Dyne/cm) – Surface & reverse Acrylic coated polypropylene Pearlized BOPP - Surface CC-PET or Chemically Coated PET – Surface (reverse – bond depends on the PET Chemical Coatings as well as adhesive employed) Other films after verifications
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Special Features

- Very high pigment strength inks
- Excellent flow at low viscosity
- > High solids
- ➢ Good Printing Stability
- High Transparency and Excellent Gloss
- Good Blocking resistance
- Excellent adhesion
- Good scuff resistance & slip properties: Obtained on addition of FICPL lnks Slip & Scuff Additive (Code No.)
- Excellent solvent release, enabling high press speeds to be used.
- Designed to exhibit a low coefficient of friction (surface application)
- Excellent freeze thaw resistance: making the ink suitable for the extreme cold weather countries
- ➢ Good heat resistance (> 160°C, 3 bar, 1-sec., Treated film, under standard laboratory conditions).
- Alcohol and Acetate based (free of Toluene/ MEK / MIBK / Butenol Banned Solvents)
- These inks also exhibit good Deep Freeze, Water and Milk resistance properties for specialized packing applications in these areas customer is advised to inform FICPL R&D in advance.

Color Range:

Full palette of colours is available, which may only occasionally be restricted by specific end use resistance characteristics requirement.

Process Range:

Product Codes	Product Description	L.F. (1-8 Scale)
FIC/FP 2104	NC. Lam BLACK SUPER	7
FIC/FP 2105	NC. Lam YELLOW P	4
FIC/FP 2105 PC	NC_Lam YELLOW PC	4
FIC/FP 2105 S	NC Lam YELLOW SUPER	4
FIC/FP 2106	NC Lam BLUE	7
FIC/FP 2103 P	NC. Lam MAGENTA P	4 to 5
FIC/FP 2103 PC	NC. Lam MAGENTA PC	4 to 5
FIC/FP 2103 S	NC. Lam MAGENTA SUPER	4to 5



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White and Extender Medium:

Product Codes	Product Description	L.F. (1-8 Scale)
FIC/FP 2107	NC. Lam MEDIUM EXTENDER	N.A.
FIC/FP 2101 O	NC. Lam. WHITE OPAQUE	7
FIC/FP 2101 E	NC. Lam WHITE EURO	7

Standard Range:

Product Codes	Product Description	L.F. (1-8 Scale)
FIC/FP 2105	NC. Lam YELLOW OPAQUE	4
FIG/FP2150	NC. Lam YELLOW WARM	4
FIC/FP 2110	NC. Lam BLUE REFLEX	3 to 4
FIC/FP 2109	NC. Lam. BLUE ROYAL	3 to 4
FIC/FP 2141	NC Lam RED WARM	3 to 4
FIC/FP 2102	NC Lam RED	4
FIC/FP 2130	NC. Lam AR/SR or Geranium RED	5 to 6
FIC/FP 2112	NC Lam ORANGE	5 to 6
FIC/FP 2108	NC Lam GREEN	7
FIC/FP 2111 NAR	NC. Lam NON AR/SR VIOLET	3 to 4
FIC/FP 2111 ARSR	NC Lam AR/SR VIOLET	7

Support Additives:

Product Codes	Product Description	Active % Content
FIC/FP/ADD 2131	Flow NC. Lam ADHESION PROMOTER	xxxx
FIC/FP/SS 2132	Flow NC Lam SLIP & SURFACE SCUFF ADDITIVE	xxxx

Printing & Processing

•	DIN Cup 4	AFNOR Cup 4	Ford 4 Cup	Zahn 2 cup
Gravure printing	15-19 sec	16-21sec	14-18 sec	20-23 sec
Flexo printing	19-22 sec	21-25 sec	20-24 sec	22-26 sec

^{*}The above figures are given for guidance only.

Viscosity adjustment should be undertaken only after the ink is well mixed and the ink is at room temperature. Viscosity is adjusted by adding solvents slowly in small quantities. (See under "Dilution").



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The Actual viscosity used will depend on a number of factors, including print design, press conditions, the machine running speed and the desired colour characteristics.

Dilution:

Solvent and solvent blends used for dilution may need to be adjusted in accordance to printing conditions: Namely, printing process, printing speed, oven capability and graphics such as solids, lines, half tone and process printing.

To achieve good DOT RE-PRODUCTIONS in below 7 % dot areas, Use Extra Retarder

Depending on printing conditions, the following solvents may be used as retarder or accelerator,

Accelerator .:- Ethyl Acetate

Medium:-

N-Propyl Acetate, Ethyl Alcohol

Slow:-

N-Propanol

Retarder:-

Methoxy propanol, Ethoxy propanol, Dowanol PM

Reducing System:

We recommend few basic ratios:

Reducers For Flexo:

ETHYL ALCOHOL-99% PURE	70
ETHYL ACETATE	20
DOWANOL - PM	10

ETHYL ALCOHOL-99% PURE	70
N-PROPYL ACETATE	20
DOWANOL - PM	10

N-PROPANOL	80
ETHYL ACETATE	20

N-PROPYL ALCOHOL	80
N-PROPYL ACETATE	20



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Reducers For Garvure:

CONTRACTOR OF THE PROPERTY OF	
ETHYL ALCOHOL-99% PURE	50
ETHYL ACETATE	50
ETHYL ACETATE	70
ETHYL ALCOHOL-99% PURE	30
ETHYL ACETATE	70
N-PROPANOL .	30
ETHYL ACETATE	50
N- PROPYL ACETATE	50

*It is always better to mix the solvents before adding to the ink.

Shelf Life:

The inks and varnishes of this series have under normal conditions a shelf life of at least 6 months.

Normal conditions means:

- Storage in tightly closed containers
- No admixtures
- Temperature not exceeding 25°C for weeks or 30°C for days.
 Short time excess-temperatures e.g. at transport are not harmful. The products are not sensitive to frost.

"Over-stored inks (typical symptoms: fall in gloss, shift in shade, formation of odour and / or viscosity increase) may normally – off colour being exceptions - be used the same way as residual inks by controlled admixture to fresh inks Increased viscosity due to long-time storage of inks may generally be adjusted by addition of a slightly higher amount of thinner than the usual.

Please take notice of the following:

1. The performance results indicated in this literature are only indicative under controlled conditions of laboratory with virgin & standard packaging grade films. Please do not use lower grades or substandard films. FLOW INK & COATINGS Pvt Ltd., will not take any responsibility for abnormal results



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2. Liability: While the information outlined is given in good faith, it does not constitute a guarantee and neither is one implied as to the specific end use suitability of any product. The customers should always evaluate the suitability of products to their own satisfaction

2.1. FLOW INK & COATINGS Inks is responsible only to the tune of replacing the ink consumed in case of any printing related problems, clearly assigned to in-compatibility with the ink system recommended by FLOW INK & COATINGS Inks for the print job under consideration.

If you require any further information please do not hesitate to contact us or visit our website.



SAFETY DATA SHEET



Substance Name: TOLUENE

Page 1 of 10

Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation") and REGULATION (EC) No 1272/2008 (CLP)

Section 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/ **UNDERTAKING**

Identification of the substance/preparation

Substance Name: TOLUENE

Trade names: TOLUENE

Synonyms: Benzene, methyl-, Methacide, Methane, phenyl-, Phenylmethane, Methylbenzene, Methyl-

benzol, Toluol

CAS #: 108-88-3

EC#: 203-625-9

Common/important uses of the substance/preparation: Toluene is used as an industrial and laboratory solvent, as intermediate in production of chemicals and pharmaceuticals, and as a component in fuel.

Company/undertaking identification

Supplier/Manufacturer: GADIV PETROCHEMICAL INDUSTRIES Ltd.

P.O.B 32 HAIFA Tel: +972-4-8788020 Fax: +972-4-8788018 E-mail: Gadiv@orl.co.il

E-mail address of person responsible for this SDS: gamiram@orl.co.il

Emergency telephone number (including hours of operation): +972-4-8788643

Section 2. HAZARDS IDENTIFICATION

According to EC Directive 2001/59/EC

Most Important Hazards

Physical / Chemical Hazards: R11 Highly flammable.

Health Hazards:

R38 Irritating to skin.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R63 Possible risk of harm to the unborn child.

R65 Harmful: may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

MATERIAL SAFETY DATA SHEET

SECTION 1 :	-	CHEMICAL IDENTIFICATION		
	Name	: Ethyl acetate		
SECTION 2 :		COMPOSITION/INFORMATION ON INGREDIENTS -		
THE OPERATOR OF THE PERSON OF	CAS #	:141-78-6		
	MF	$: C_a H_s O_2$		
92	EC No.	:205-500-4		
100	M.W.	:88.10g/mol		
ADDI	TIONAL INFO	RMATION		
	Ethyl acetate	CAS No.: 141-78-6		
SYNO	NYMS			
	Acetic ether.			
SECTION 3	re-	HAZARDS IDENTIFICATION		
		IIAZARDS IDENTIFICATION		
Label	Precautionary S	tatements		
	Flammable, ir	ritant		
8.	rialililable, ii	mant.		
SECTION 4 :		FIRST - AID MEASURES		
	If swallowed,	wash out mouth with water provided person is consious call a physici		
	Wash contam	inated clothing before reuse. If inhaled, remove to fresh air. If not		
breathing give		ial respiration. If breathing is difficult, give oxygen. In case of skin		
contact, wash v				
	soap and copio	us amounts of water for at least 15 minutes. In case of eye contact		
Immediately				
22.2	irrigate with	copious quantity of water for at least 15 minutes. Eyelids to be held		
	medical attent	tau		
open.Seek		ion.		
open.Seek	medicar attent			
		FIRE FIGHTING MEASURES		
SECTION 5 :				

Water spray ,carbon dioxide, dry chemical powder or appropriate foam.

SPECIAL FIRE FIGHTING PROCEDURES

Wear self contained breathing apparatus and protective clothing .Prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

	Forms explosive mixtures in	air.	
SECTION 6	: AC	CIDENTAL RELEASE M	MEASURES
	Wear self-contained breathing	g apparatus ,Chemical safety g	oggles, rubber boots and
heavy	mylehou olovice Comercia un ale		J
dust.Ventillate	rubber glovesSweep up, pla area and wash spill site after material p		
ignition.	massi spini site arter materiar p	non up is complete. Dracate t	area. Shat on an sources of
SECTION 7	: HA	NDLING AND STORAG	E
Hand thoroughly afte	ling & Storage Precautions	: Keep tightly closed. Sto	re in a cool dry place.Wash
0 7	8	Keep away from heat, s	sparks, and open flame
	: EX	POSURE CONTROLS/P	ERSONAL
&		Mechanical exhaust required. A	Avoid contact with eyes., skin
chemical resist	clothing.Compatible resistant ant gloves. Chemical safety gogg		
	ant	les . Avoid prolonged or repea	ated exposure.
	ant gloves. Chemical safety gogg	les . Avoid prolonged or repea	ated exposure.
SECTION 9	ant gloves. Chemical safety gogg	les . Avoid prolonged or repea	ated exposure.
SECTION 9	ant gloves. Chemical safety gogg: PH Boiling Pt./Range Appearance	les . Avoid prolonged or repeated and CHEMICA :76.5-77.5°C :	AL PROPERTIES Physical State M.Pt./Freezing Pt.:-84°C
SECTION 9	Boiling Pt./Range Appearance Vapour Pressure @20°C	les . Avoid prolonged or reper YSICAL AND CHEMICA :76.5-77.5°C : : 73 mmHg	Physical State M.Pt./Freezing Pt. :-84°C Odour :
SECTION 9	Boiling Pt./Range Appearance Vapour Pressure @20°C Vapour Density (Air = 1)	les . Avoid prolonged or repeated and CHEMICA :76.5-77.5°C :	Physical State M.Pt./Freezing Pt.:-84°C Odour : Solublility in water@30°C
SECTION 9 :Liquid :-z1076	Boiling Pt./Range Appearance Vapour Pressure @20°C Vapour Density (Air = 1) Evaporation rate	les . Avoid prolonged or reper YSICAL AND CHEMICA :76.5-77.5°C : : 73 mmHg	Physical State M.Pt./Freezing Pt.:-84°C Odour : Solublility in water@30°C Specific Gravity(Water =
SECTION 9 :Liquid :-z1076	Boiling Pt./Range Appearance Vapour Pressure @20°C Vapour Density (Air = 1) Evaporation rate pH	les . Avoid prolonged or reper YSICAL AND CHEMICA :76.5-77.5°C : : 73 mmHg	Physical State M.Pt./Freezing Pt.:-84°C Odour : Solublility in water@30°C
:Liquid :-z1076 1):0.902	Boiling Pt./Range Appearance Vapour Pressure @20°C Vapour Density (Air = 1) Evaporation rate pH	les . Avoid prolonged or reper YSICAL AND CHEMICA :76.5-77.5°C : : 73 mmHg : 3g/l : : seff of water/oil distribution	Physical State M.Pt./Freezing Pt.:-84°C Odour : Solublility in water@30°C Specific Gravity(Water = Others :

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS $\mathrm{CO}_{2}.$

HAZARDOUS POLYMERIZATION

Will not occur.

SECTION 11	TOXICOLOGICAL INFORMATION			
irritation.	Acute effects: causes irritation. May be harmful if absorbed through the skin. causes eye			
	May be harmful if inhaled. Material is irritating to mucous membranes and upper			
respiratory tract.	TV 0110 11 1			
	Harmful if swallowed. LD ₅₀ (orl-rat): 5620mg/kg			
	LD ₅₀ (orl-mus): 4100mg/kg			
SECTION 12	Ecological information			
	N.A.			
SECTION 13	DISPOSAL CONSIDERATIONS			
care in igniting a and local envior	Burn in a chemical incinerator equipped with an afterburner and scrubber.But exert extra sthis material is highly flammable. Observe all federal, state nment regulations.			
SECTION 14	TRANSPORT INFORMATION			
	GGVE/GGVS/RID/ADR: 3/3b ; IMDG-code : 3.2/II UN 1173			
SECTION 15	REGULATORY INFORMATION			
LABEI	LING ACCORDING TO EC DIRECTIVES			
100 March 100 Ma	R:11-36-66-67: Highly flammable, iritating to eyes, repeated exposure may cause skin			
dryness or cracki				
	Vapours may cause drowsiness and dizziness. S:16-26-33: Keep away from source of ignition-no smoking. In case of contact with eyes,			
rinse immediatel	with plenty of water and seek medical advice. Take			
	easures against static discharges.			
SECTION 16	OTHER INFORMATION			
	N.A.			

Information contained in this "Material Data Sheet" is believed to be reliable but no representation, guarantee or warranties of any kind are

made as to its accurary, suitability for a particular application, or results to be obtained from them. It is upto the manufacturer / seller/ user to

ensure that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold by him as

the case may be. We make no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL IDENTIFICATION
NAME: ISOBUTYL METHYL KETONE
SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS
CAS #: 108-10-1
M.W.: 100.1
EC NO: 203-550-1
SYNONYMS
ISOPROPYLACETONE , METHYL ISOBUTYL KETONE .
SECTION 3 HAZARDS IDENTIFICATION
LABEL PRECAUTIONARY STATEMENTS
FLAMMABLE (USA), HIGHLY FLAMMABLE (EU), IRRITANT
SECTION 4 FIRST-AID MEASURES
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS
CONSCIOUS.
CALL A PHYSICIAN.IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING
GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS
AMOUNTS OF WATER. IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH
COPIOUS AMOUNTS OF
WATER FOR AT LEAST 15 MINUTES.
SECTION 5 FIRE FIGHTING MEASURES
EXTINGUISHING MEDIA
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
WATER MAY BE EFFECTIVE FOR COOLING, BUT MAY NOT EFFECT
EXTINGUISHMENT.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.
USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.
UNUSUAL FIRE AND EXPLOSIONS HAZARDS
VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND
FLASH BACK. EMITS TOXIC FUMES UNDER FIRE CONDITIONS.
CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.
FORMS EXPLOSIVE MIXTURES IN AIR.
SECTION 6 ACCIDENTAL RELEASE MEASURES
WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.COVER WITH DRY-LIME, SAND, OR SODA ASH. PLACE IN
COVERED CONTAINERS
USING NON-SPARKING TOOLS AND TRANSPORT OUTDOORS.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS
COMPLETE.
EVACUATE AREA. SHUT OFF ALL SOURCES OF IGNITION.
SECTION 7 HANDLING AND STORAGE
-
KEEP CONTAINER CLOSED. KEEP AWAY FROM HEAT, SPARKS, AND OPEN
FLAME.STORE IN A COOL DRY PLACE.HARMFUL LIQUID.IRRITANT.
SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION
SAFETY SHOWER AND EYE BATH.USE NONSPARKING TOOLS.
MECHANICAL EXHAUST REQUIRED. WASH THOROUGHLY AFTER HANDLING.

WASH CONTAMINATED CLOTHING BEFORE REUSE. AVOID BREATHING VAPOR. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE. NIOSH/MSHA-APPROVED RESPIRATOR.COMPATIBLE CHEMICAL-RESISTANT GLOVES. CHEMICAL SAFETY GOGGLES. SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - -APPEARANCE AND ODOR LIQUID. PHYSICAL PROPERTIES BOILING POINT: 115 - 117 C -80 C MELTING POINT: VAPOR PRESSURE: 15 MMHG @ 20 C SOLUBILITY: WATER -Z25047 SPECIFIC GRAVITY: 0,801 VAPOR DENSITY: 3,5 G/L SECTION 10. - - - - - - - - - - STABILITY AND REACTIVITY - - - - - - -STABILITY STABLE. INCOMPATIBILITIES OXIDIZING AGENTS, STRONG BASES HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS CARBON MONOXIDE, CARBON DIOXIDE HAZARDOUS POLYMERIZATION WILL NOT OCCUR. SECTION 11. - - - - - - TOXICOLOGICAL INFORMATION - - - -ACUTE EFFECTS CAUSES SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. CAUSES EYE IRRITATION. MAY BE HARMFUL IF INHALED. MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. ORL-RAT LD50:2080 MG/KG UCDS** 4/25/1958 IPR-RAT LD50:400 MG/KG 38MKAJ 2C, 4748, 1982 ORL-MUS LD50:1900 MG/KG NTIS** OTS0535383 IPR-MUS LD50:268 MG/KG SCCUR* -,7,1961 SECTION 12. - - - - - - ECOLOGICAL INFORMATION - - - - - -GGVE/GGVS/RID/ADR: 3/31C IMDG-CODE: 3.3/III UN 1993 SECTION 13. - - - - - - - DISPOSAL CONSIDERATIONS - - - - - - -BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HTGHLY FLAMMABLE. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS. SECTION 14. - - - - - - - TRANSPORT INFORMATION - - - - - - -GGVE/GGVS/RID/ADR: 3/31C IMDG-CODE: 3.3/III UN 1993 SECTION 15. - - - - - - REGULATORY INFORMATION - - - -R 11 HIGHLY FLAMMABLE. R 20 HARMFUL BY INHALATION. IRRITATING TO EYES AND RESPIRATORY SYSTEM. REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.

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