

PRODUCT DATA SHEET

PRODUCT DESCRIPTION

SASA plus™ 88 Plasticizer is a general purpose safer plasticiser for safer environment than most orthophthalate plasticizers. It finds uses in applications like extrusion, calendaring, injection molding, rotational molding, dip molding, slush molding and coating.

TYPICAL PROPERTIES

Property	Typical Values
Density @ 20°C	0.98g/cm ³
Color	Colorless Clear Liquid
Specific Gravity @ 20°C/20°C	0.984
Acidity as Phthalic Acid	0.01 wt % max.
Boiling Point	400°C
Melting Point	-48°C
Flash Point	238°C (460°F)
Assay	98.5 wt % min.

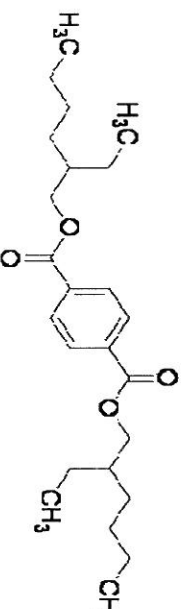
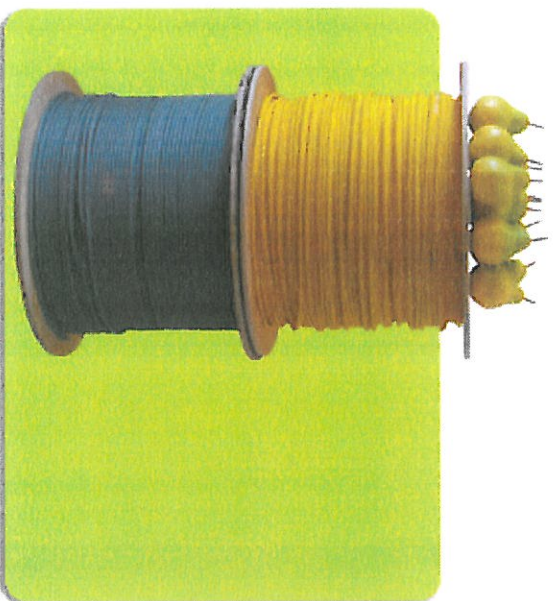
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Unique Chemical Structure of **SASA plus™ 88**

bis(2-ethyl hexyl)-1,4-benzene dicarboxylate

CAS No: 6422-86-2

Molecular Formula: $C_{26}H_{44}O_4$



SASA plus™ 88

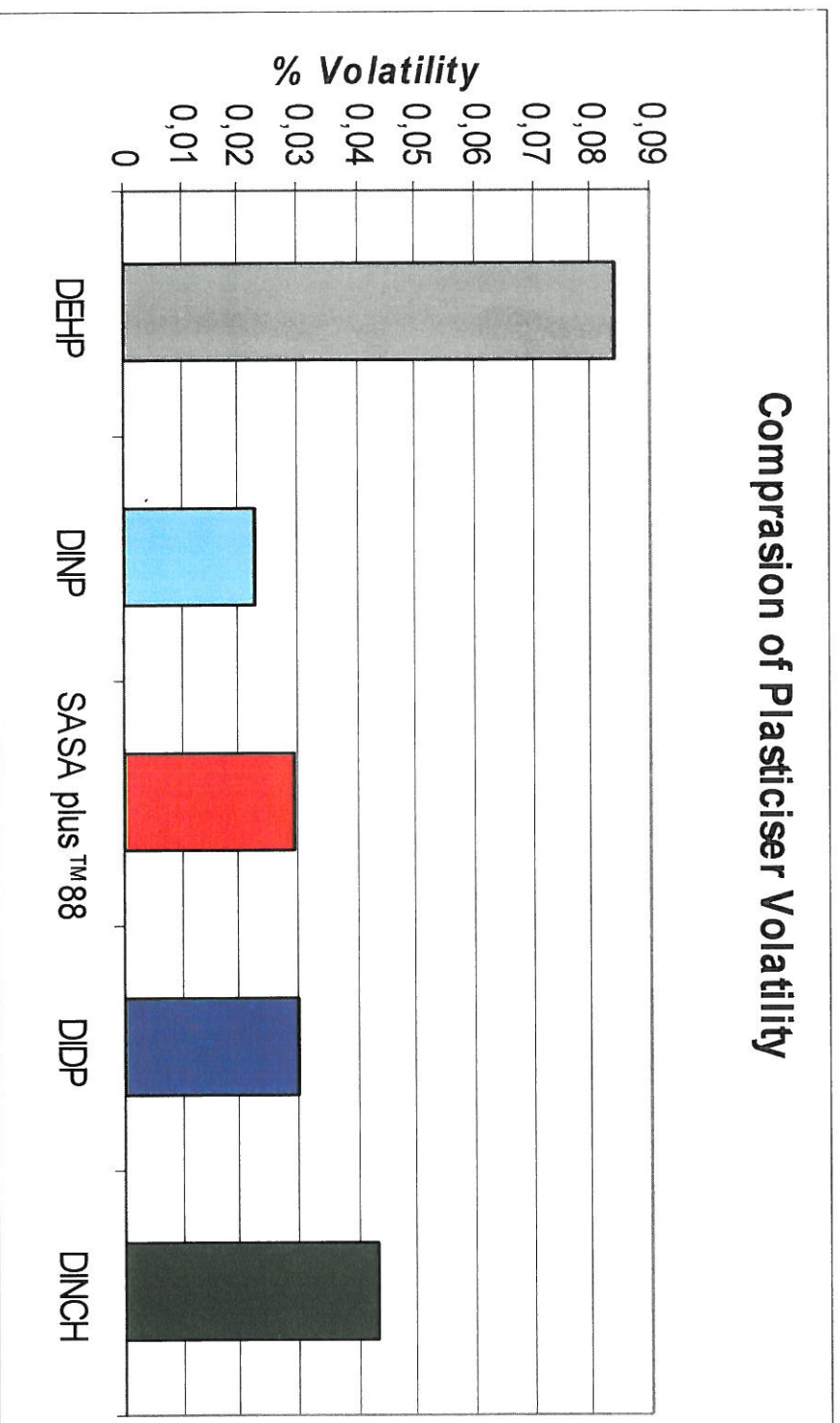
General Properties of SASA plus™ 88

PROPERTY	SASA Plus 88	DEHP	DINP	DIDP
Molecular Weight	390.6	390.7	418	447
Specific Gravity	0,9835	0,9852	0,974	0,971
Boiling Point, 760mmHg, C	400	384	400	250
Freezing Point, C	-48	-50	-54	-50
Solubility in Water, mg/L (25 C)	0,3	3	0,6	0,6
Viscosity, Cp (25 C)	63	56	52	130

SASA plus™ 88

% Volatility at 90 °C

Comprasion of Plasticiser Volatility



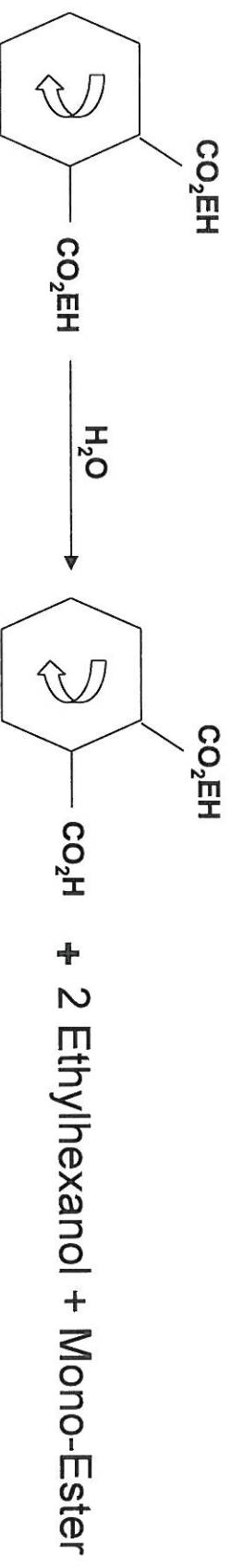
SASA plus 88

Physical Properties of Compounds

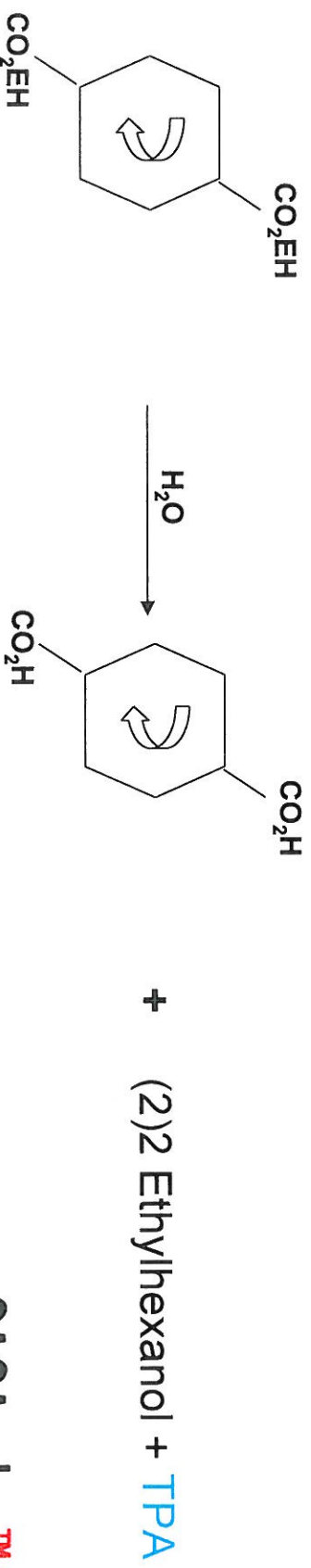
	DOP	SASA Plus 88	DINP	DIDP
Plasticizer Concentration to Give Equal Modulus,phr	50	50	54	53
Mechanical Properties				
Tensile Strenght, mPa	19	19,3	18,9	18,3
Elongation %	370	385	385	360
Tear Strenght, N/mm	84	87	77	87
Permanence				
Soapy Water, % Loss	0,78	1,02	0,85	0,33
Oil Extraction, % Loss	10,4	16,1	17,3	16,4
Low Temperature Flexibility				
Torsion Modulus °C 35.000 psi	-19	-21	-16	-20
Low-Temperature Impact °C	-33	-37	-33	-29

Cehmical Nature vs. Toxicity

- Phthalate Esters (DOP)



- Sasa plus 88



SASA plusTM 88

Regulatory Status

BET is not in any restricted materials list of government authorities

- It does not have a phrase like R or S according to EU
- According to Swiss poisons Law, it is rated as “No Toxic”
- According to Japan Hygienic Glove Association , it is not classified as an ortho-Phthalates (B-1-(xx))
- US FCN (Food Contact Notification) equivalent to :
 - Use at below 35% in repeat Food Contact Application and <100°C
 - 21 CFR 174.5
 - 21 CFR 177.1210
 - 21 CFR 175.105
 - 21 CFR 175.125
 - 21 CFR 176.180
- Preliminary EFSA (European Food Safety Authority) list
- Draft SCENIHR opinion on alternatives for DEHP in medical

Application Areas of **SASA plus™ 88**

SASA PLUS 88 works well in all types of PVC processing.

- Extrusion
- Calendering
- Injection molding
- Rotational molding
- Dip molding
- Slush molding
- Plastisol screen ink

SASA plus™ 88