

1 PRODUCT AND COMPANY IDENTIFICATION					
MSDS Code	409.003				
Trade Name	IGT Penetration Liquid				
Manufacturer/Supplier	IGT Testing Systems				
Address	Keienbergweg 25 P.O. Box 12688 1100 AR Amsterdam Z.O. The Netherlands				
Phone Number	+31 20 409 9300				
Fax Number	+31 20 697 4842				
E-mail	info@igt.nl				
Technical Support Phone Number	+31 20 409 9300				
Emergency Phone Number	+31 20 409 9300				
2 HAZARD IDENTIFICATION					
Main Hazards	T: toxic N: dangerous for environment This product is flammable.				
Dangerous health effects	Developmental Toxicity Class 2 May impair fertility. Class 3 Very toxic to aquatic organisms. Risk during pregnancy of harm to the child				
3 COMPOSITION/INFORMATION ON THE COMPONENTS					
Product Trivial Name	IGT Penetration Liquid				
Information on composition	Composition	CAS No	CE No	Annex Index No	Classification
	95 - 99% Dibutyl phthalate	84-74-2	201-557-4	607-318-00-4	Repr. Cat. 2; R61 Repr. Cat. 3; R62 N; R50
	0,5 -1,5% Sudan Red IV	85-83-6			
4 FIRST AID MEASURES					
Get medical attention when discomfort develops					
First Aid - Eyes	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Cold water may be used, WARM water MUST be used. Get medical attention immediately.				
First Aid - Skin	Immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.				
First Aid - Ingestion	Never give anything by mouth to an unconscious person. Get medical attention Do not induce vomiting				
First Aid - Inhalation	Remove to fresh air. Get medical attention for any breathing difficulty.				
Advice to Physicians	Treat symptomatically. Keep under medical surveillance for 48 hours if aspiration could have occurred.				
5 FIRE FIGHTING MEASURES					
Prevention	No flames Do not smoke				
Extinguishing Media	Use water spray, foam, dry chemical or carbon dioxide.				
Special Procedures	Avoid the waste water against the fire contaminate the environment. Do not breathe the smoke of fire or fumes of decomposition.				
6 ACCIDENTAL RELEASE MEASURES					
Personal Precautions	None required, however, use of eye protection, protective gloves/ clothing and adequate ventilation is good industrial practice. Do not inhale vapours, the substance effects neural systems				
Environmental Precautions	Try to prevent the material from entering drains or watercourses.				
Spillages	Clean with suitable absorbents and detergents, e.g. alcohol				
7 HANDLING AND STORAGE					
Handling	No special requirements				
Storage	Keep in closed original packaging				
8 EXPOSURE CONTROLS/PERSONAL PROTECTION					
Occupational Exposure Standards	None required, however, use of eye protection, protective gloves/ clothing and adequate ventilation is good industrial practice. Do not inhale vapours, the substance effects neural systems.				
Ingestion	Do not eat, drink and smoke				
9 PHYSICAL AND CHEMICAL PROPERTIES					
Physical State	Liquid				
Colour	Dark Red				
Odour	Slight aromatic odour				
Taste	Bitter, strong				
pH	n.a.				
Flash Point (°C)	191°C (Cleveland open cup)				
Solubility in Water	11.2 mg/l				
Vapour Pressure	20 °C – 0,0000189 mb				
Density (kg/m ³)	±1.05 at 23°C				
Auto-flammability (°C)	403 C				
Viscosity (Pa.s)	14				
Melting point	- 35 C				

Boiling point	340 C
Explosion limit	0.5 – 2,5 %
Evaporation rate (BuAc=1)	Ca 0.0
10 STABILITY AND REACTIVITY	
Stability	Stable under normal conditions. Combustible.
Hazardous Decomposition Products	May also produce 1-butene, butanol and phthalic anhydride. CO2 and CO may form when heated to decomposition.
Incompatibilities	Oxidizing agents, acids, chlorine, nitrates, bases and alkalis
Conditions to avoid	Heat, flames, ignition sources and incompatibles
11 TOXICOLOGICAL INFORMATION	
Acute toxicity	Oral toxicity (LD ₅₀) 8000 mg/kg on rats. TDI-Value: 10 µg/kg
Inhalation	Inhalation of vapours or mists is not expected unless this material is heated or misted. If inhaled, material may cause irritation to respiratory tract.
Oral (rat) LD50 [mg / kg]	= 8000. Ingestion may cause nausea and vomiting.
Dermal (rabbit) LD50 [mg / kg]	> 20000 Can cause moderate irritation
Eye irritation	Slight
Skin irritation (guinea pig)	Slight
Skin irritation (rabbit)	None
Risk phrases	R50, R61, R62
12 ECOLOGICAL INFORMATION	
Ecological information	This product contains ingredients harmful to the aquatic environment.
Environmental precautions	Notify authorities if product enters sewers or waters of public domain.
Biodegradation [%]	80 The product is biodegradable
Bio-accumulation	Log Pow 4.6 - 4.9
LC50-96 hours - fish [mg / l]	0.85
48h-EC50 Daphnia magna [mg / l]	3.4
IC50 72h Algae [mg / l]	1.2
13 DISPOSAL	
Product Disposal	Dispose of in accordance with all applicable local and national regulations. Incineration is the recommended method of disposal.
14 TRANSPORT INFORMATION	
Not classified due to the small quantities	
Non hazardous for air, sea and road freight	
15 REGULATORY INFORMATION	
Labelling Information	T- Toxic N- Dangerous for the environment
R – Phrases	R50- Very toxic to aquatic organisms R61- May cause harm to the unborn child R62- Possible risk of impaired fertility
S – Phrases	S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) S53- Avoid exposure – obtain special instructions before use S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.
16 OTHER INFORMATION	
United States Regulation Information: TSCA	"All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements".
MSDS data revised	26 March 2009
Uses and Restrictions	This product is only intended for printability testing purposes under standard conditions. The product is supplied in bottles with a maximum volume of 50 ml.
Notice	
This Material Safety Data Sheet is based upon data considered to be accurate as at the time of its preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. We are not responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices or from hazards inherent in the nature of the product.	
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