



## **HAROLBIO 1**

Description:	It's a neat MWF, free from mine ferrous metals removal operations. It is made from state-of-the-art r synthetic esters, mixed with comp antioxidant, rust and metal passiva Features: - neither fumes nor vapours while v - high flash point for safe operation - excellent fluidity even at low power, for a quick and an even spr - excellent greasing, EP, detachi finishes; - good oxidation and rust resistance - good anti-wear properties; - low temperature of worked pieces - well crushed and shredded scrap - excellent cutting and anti-welding - 100% biodegradability; - friend to operators, because it de components. The product is free from chlorinate contains Polycyclic Aromatic Hydro	aw materials, based o conents, which improv tors additives. working; ns; temperatures and ex eading on metal surfac ng and cutting power e; s; power; power; ces not contain either ed and sulfur compour	on saturated a re machining a ceptional wetti ce; , for high qua harmful or irrita	ind ing lity ant		
Applications:	All metalworking operations, including heavy ones, of removal, cutting, buckling and bending with both systems of traditional jet lubrication and minimal spray ones, on ferrous and non-ferrous metals, including Titanium. The product can be used also for high performance grinding of steel, in particular stainless steel and hard metals; it performs excellent with all grinders types, included CBN.					
AVERAGE CHEMICAL AND PHYSICAL PROPERTIES*						
Density at 20 ° C	ASTM	1 D 1298	Kg / I	0,858		

Density at 20 ° C	ASTM D 1298	Kg / I	0,858
Viscosity at 40 ° C	ASTM D 445	cSt	8,46
Viscosity at 100 ° C	ASTM D 445	cSt	2,64
Viscosity Index	ASTM D 2270	-	162
Flash point	ASTM D 92	°C	204
Fire Point	ASTM D 92	°C	227
Cloud Point	AOCS Cc6-25	°C	< 0
lodine Number	ASTM D 4607		< 2
RPVOT/RBOT Induction time	ASTM D 2272	min	> 1000

\*Data do not constitute any specification

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Technical

Data Sheet

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