



**NOWA AUSTRALIA  
44 BRADY STREET  
VIRGINIA SA 5120  
TEL: 08 8380 9976**



## **MASTER A.R.C. FOAM CONCENTRATE POLYMERIC FIRE FIGHTING FOAM RESISTANT TO POLAR SOLVENTS**

### **PRODUCT BASIS AND APPLICATION**

**NOWA AUSTRALIA A.R.C.** is a synthetic multipurpose foaming agent based on surfactants (some fluorinated) and polymeric additives meets the criteria for foam expansion, 25% drainage time and alcohol resistance required by U.K.

M.O.D. standard 42-(21-24) Manufactured in accordance with the requirements of ISO 9002.

BIODEGRADABLE CONTAINS ONLY BIODEGRADABLE SURFACTANT ACCORDING TO AUSTRALIAN STANDARDS AS 1792-1976. ENVIRONMENTAL IMPACT IS THUS MINIMISED OR ELIMINATED.

### **ADMIXTURE**

Approx 3% by vol. with the extinguishing water used with hydrocarbon liquid fire.

Approx 6% by vol. when used with polar solvent free.

Water quality: drinking water, treat industrial water, river water or sea water. It is not necessary to admix more than 6% by vol.

Because of the higher viscosity of **NOWA AUSTRALIA MASTER A.R.C.** compared to conventional foam extinguishing agents, the diameter of the suction line should not be too small.

### **FOAMING CAPACITY**

With usual commercial foam generators, it is possible to produce low and medium expansion foam. The foam values obtainable depend on the equipment and the admixture, so at 3% by vol., for instance, the following are achieved:

	<u>Foam Expansion</u>	<u>50% Drainage Time</u>
Low Expansion Foam	> 8	> 25min
Med. Expansion Foam	> 90	> 8min

### **APPLICATION**

**NOWA AUSTRALIA MASTER A.R.C.** is eminently suitable for extinguishing fires caused by polar solvents (e.g. methanol, isopropanol, acetone methyl isobutyl ketone etc.), hydrocarbons and motor fuel mixtures (Gasohol).

It forms a polymer film on solvents miscible with water, which effectively protects the foam from destruction.

Furthermore **NOWA AUSTRALIA MASTER A.R.C.** has proved to be effective as a high expansion foam used in LNG (liquid natural gas) fires.

Low expansion foam produced with **NOWA AUSTRALIA MASTER A.R.C.** in 3% by vol. admixture is extremely free-flowing and can be applied directly – i.e. with a free jet – on to extended areas of liquid. In fires caused by foam-destroying liquids indirect application of the foam is recommended (e.g. by means of foam baffle plates).

Medium expansion foam produced with **NOWA AUSTRALIA MASTER A.R.C.** (foam expansion approx. 50: 1) is ideal for the rapid extinguishment of large area fires caused by hydrocarbons.



<b>MATERIAL SAFETY DATA SHEET</b>
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**PRODUCT NAME**                    **MASTER ARC**  
**AQUEOUS FILM FORMING FOAM**  
**(FOR FIRE FIGHTING APPLICATION)**

**NOWA AUSTRALIA**                **TEL: 08 8380 9976**  
**44 BRADY STREET**  
**VIRGINIA SOUTH AUSTRALIA 5120**  
**AUSTRALIA**

**MATERIAL IDENTIFICATION & INFORMATION**

**CHEMICAL NAME**                    AQUEOUS SOLUTION OF ANIONIC,  
NONIONIC & FLUORINATED  
SURFACTANTS

**UN NUMBER**                        N/A

**DANGEROUS GOODS CLASS**        N/A

**HAZCHEM CODE**                    N/A

**POISONS SCHEDULE**                N/A

DOES NOT CONTAIN ANY SUBSTANCE CLASSIFIED AS DANGEROUS GOODS

**USE**                                    FOAM GENERATION COMPOUND

**PHYSICAL PROPERTIES**

PALE YELLOW TO CLEAR, ODOURLESS, NON-NEWTONIAN LIQUID  
SOLUBLE IN WATER IN ALL PROPORTIONS

**FLASH POINT**                        NON-FLAMMABLE

**SPECIFIC GRAVITY**                    1,02 @ 20 DEG C

**M.PT.**                                 N/A

**B.PT.**                                 100 DEG C

**Ph**                                      RANGE 7.5.0 (+/-0.5)

PER CENT VOLATILES 70% MAX (WATER)

<b>CONTAINS</b>	<b>CAS NUMBERS</b>	<b>%W/V</b>
WATER	7732 18 5	70
ANIONIC SURFACTANT	8051-30-7	>10
NONIONIC SURFACTANT	61789-40-0	>10
FLUORINATED SURFACTANT	N/A	>10
ORGANIC POLYMER	N/A	>10
GLYCOL ETHER	N/A	>10

**FIRE/EXPLOSION HAZARD**

NON-FLAMMABLE                      NON-EXPLOSIVE

**REACTIVITY HAZARD**

GENERALLY NON REACTIVE  
NON-CORROSIVE  
POLYMERISATION DOES NOT OCCUR  
NO HAZARDOUS DECOMPOSITION PRODUCTS

**OTHER INFORMATION**

PRODUCT CONTAINS ONLY BIODEGRADABLE SURFACTANTS ACCORDING  
TO AUSTRALIAN STANDARD AS 1792-1976

## MATERIAL SAFETY DATA SHEET

NAME **MASTER A.R.C.**  
**AQUEOUS FILM FORMING FOAM (A.R.C)**  
(FOR FIRE FIGHTING APPLICATIONS)

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AUSTRALIA

### HEALTH HAZARD INFORMATION

#### HEALTH EFFECTS

SHORT TERM EXPOSURE BY ALL ROUTES IS CONSIDERED NON-HARMFUL. PROPERTIES, NO EXPOSURE LIMITS ASSIGNED BY WORKSAFE AUSTRALIA.

SWALLOWED	INGESTION CONSIDERED VERY LOW TOXICITY
EYE	MILD IRRITANT
SKIN	NON-HARMFUL POSSIBLE MILD IRRITANT
INHALATION	NEGLIGIBLE VAPOUR PRESSURE AT AMBIENT TEMPERATURE MIST MAY BE MILD IRRITANT

#### **FIRST AID**

SWALLOWED	GIVE PLENTY OF WATER OR MILK SEEK MEDICAL ADVICE IF NECESSARY
EYES	HOLD EYES OPEN AND FLUSH WITH WATER FOR 15 MINUTES SEEK MEDICAL ATTENTION IF ANY IRRITATION PERSISTS
SKIN	WASH AFFECTED AREA WITH AND WATER
INHALED	SEEK MEDICAL ATTENTION ANY EFFECT
ADVICE TO DOCTOR	TREAT SYMPTOMATICALLY

#### **PRECAUTIONS FOR USE & SAFE HANDLING**

NOT CLASSIFIED AS DANGEROUS GOODS FOR STORAGE & TRANSPORT	
EXPOSURE LIMIT	NO VALUE ASSIGNED BY WORKSAFE AUSTRALIA
PERSONNEL PROTECTION	NOT REQUIRED
VENTILATION	NOT REQUIRED
FLAMMABILITY	NON-FLAMMABLE

#### **SPILLAGE AND DISPOSAL**

SPILLAGE IS SLIPPERY  
SPILLAGE IPRESENTS NO OTHER HAZARD  
FLUSH WITH WATER  
APPROVED FOR SEWAGE DISPOSAL-  
BIODEGRADABLE

#### **PREPARED BY**

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CONSULTANT CHEMIST

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