

2020

HAN INDUSTRIAL  
CORPORATION LIMITED

# TEAR GAS Solution

O-Chlorobenzylidene Malononitrile  
CS Liquid Solution

MF: C<sub>10</sub>H<sub>5</sub>ClN<sub>2</sub>

CAS: 2698-41-1



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## Technical Sheet of Tear Gas CS Solution

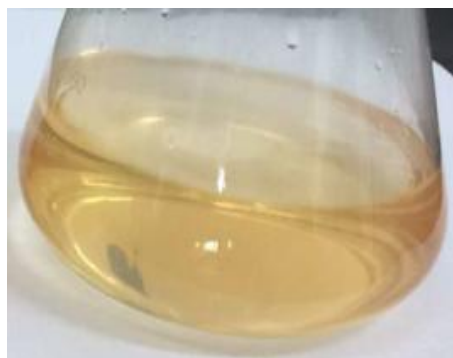
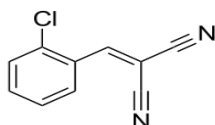
### 1. PRODUCT IDENTIFIER

Product	Ortho-chlorobenzylidene malononitrile
Synonyms	CS solution
Batch Number	200102

### 2. PHYSICAL AND CHEMICAL PROPERTY

CAS No.	2698-41-1
Molecular Formula	C <sub>10</sub> H <sub>5</sub> ClN <sub>2</sub>
Molecular Weight	188.61
Appearance	Light brown liquid with a peppery smell

Molecular Structure



### 3. TEST AND RESULT

Item	Specification	Result
Appearance	Transparent liquid	Transparent liquid
Purity % (exclude solution) HPLC	98% min	98.2%
Specification	3% solution in dichloromethane	3% solution in dichloromethane
Identification 1H-NMR Spectra		Corresponds

### 4. How to Use

Water and tear gas solution are separated, when the water shall be sprayed, tear gas solution shall be sprayed as regulated ratio, Water (100L): Tear gas solution (1L)

### 5. How to Store the Tear Gas

It shall be stored metal or plastic container as air tightened, and it shall be placed in the warehouse (without Snow, rain fire and direct light), even though the gas is being release, there is no risk of explosion, it may store for 3 years for use.

### 6. Effectiveness

It shall be sprayed to demonstrators or the group, and it causes pains on eyes, nose and skin for about 10 minutes, and then it shall be recovered.

### 7. Aim of Use

It's for put down of demonstrator group, tear gas shall be used for broad range and it makes damages to the demonstrators and common people by gas stimulation, but tear gas solution is effective to put down the demonstrators by apply to the demonstrators who are in the limited space.



**PACKAGING: 5L Plastic Drum**

