

# Class C Solutions Group

A business of MSC Industrial Supply Co.

## Safety Data Sheet

### Supply Co. - 21991 - FSA ADHESIVE, 3G

Document Nbr: 089249  
Class C Parts IDs 21990,21991

CLASS C SOLUTIONS GROUP  
A BUSINESS OF MSC INDUSTRIAL SUPPLY CO.

SAFETY DATA SHEET

DATE PREPARED: 10/10/2014

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DATE-REVISED: 6/23/2015

REVISION NO: 9

#### -----1. PRODUCT AND COMPANY IDENTIFICATION -----

GENERAL USE: CYANOACRYLATE ADHESIVE PRODUCT.

PRODUCT DESCRIPTION: 21991 - FSA ADHESIVE, 3G

#### MANUFACTURER:

CLASS C SOLUTIONS GROUP, A BUSINESS OF MSC INDUSTRIAL SUPPLY CO.  
75 MAXESS ROAD  
MELVILLE, NY 11747-3151  
USA

EMERGENCY CONTACT: CHEMTREC

EMERGENCY PHONE: 800-424-9300

ALTERNATE EMERGENCY PHONE: 703-527-3887

PRODUCT STEWARDSHIP: 866-438-6767

2595 SKYMARK AVENUE  
SUITE 202  
MISSISSAUGA, ONTARIO L4W 4L5  
CANADA

## -----2. HAZARDS IDENTIFICATION -----

## GHS CLASSIFICATIONS:

## HEALTH:

EYE IRRITATION, CATEGORY 2A

SKIN IRRITATION, CATEGORY 2

TARGET ORGAN TOXICITY (SINGLE EXPOSURE), CATEGORY 3

SKIN SENSITIZATION, CATEGORY 1

PHYSICAL: FLAMMABLE LIQUIDS, CATEGORY 4

GHS LABEL ELEMENTS: EXCLAMATION MARK

SIGNAL WORD: WARNING

## HAZARD STATEMENTS:

H315: CAUSES SKIN IRRITATION.

H319: CAUSES SERIOUS EYE IRRITATION.

H317: MAY CAUSE AN ALLERGIC SKIN REACTION.

H335: MAY CAUSE RESPIRATORY IRRITATION.

H227: COMBUSTIBLE LIQUID.

## PRECAUTIONARY STATEMENT(S):

## PREVENTION:

P264: WASH SKIN AND HANDS THOROUGHLY AFTER HANDLING.

P280:

WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.

P261: AVOID BREATHING DUST/FUME/GAS/MI ST/VAPOURS/SPRAY.

P271: USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.

P210: KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING.

## RESPONSE:

P370:

IN CASE OF FIRE: USE DRY CHEMICAL, FOAM OR CARBON DIOXIDE TO EXTINGUISH.

P305+P351 + P338:

IF IN EYES:

RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

P337+P313:

IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION.

P313: GET MEDICAL ADVICE/ATTENTION.

P302+P352:

IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.

P333+P313:

IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION.

P362: TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

P304+P340:

IF INHALED:

REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING.

P312: CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.

STORAGE:

P403+P233: STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED.

P403+P235: STORE IN A WELL-VENTILATED PLACE. KEEP COOL.

P405: STORE LOCKED UP.

DISPOSAL:

7944L501:

DISPOSE OF IN A MANNER CONSISTENT WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

-----3. COMPOSITION / INFORMATION ON INGREDIENTS -----

CHEMICAL NAME	WT. %	CAS
ETHYL-2-CYANOACRYLATE	85 - 100	7085-85-0
POLYMETHYL METHACRYLATE	10 - 30	9011-14-7

-----4. FIRST AID MEASURES -----

EYES:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION.

SKIN: WASH WITH SOAP AND WATER. PEEL OR ROLL SKIN APART.

INGESTION:

PEEL OR ROLL SKIN APART. ADHESIVE BECOMES SOLID IN CONTACT WITH SALIVA AND MAY ADHERE TO INSIDE OF MOUTH. SALIVA WILL LIFT ADHESIVE IN 1-2 DAYS. AVOID SWALLOWING SOLID ADHESIVE AFTER DETACHMENT. NOT A TOXIC PRODUCT.

INHALATION:

REMOVE TO FRESH AIR. PROLONGED OR REPEATED ELEVATED EXPOSURE MAY CAUSE ALLERGIC REACTIONS WITH ASTHMA-LIKE SYMPTOMS IN SENSITIVE INDIVIDUALS.

## SIGNS AND SYMPTOMS OF OVEREXPOSURE:

## EYES:

CAUSES SERIOUS EYE IRRITATION. WILL BOND EYELIDS. WILL CAUSE EXCESSIVE TEARING.

## SKIN:

BONDS SKIN IN SECONDS. MAY CAUSE SKIN IRRITATION. MAY CAUSE SENSITIZATION BY SKIN CONTACT. CYANOACRYLATES GENERATE HEAT ON POLYMERIZATION, SO VERY LARGE AMOUNTS WILL BURN THE SKIN.

## INGESTION:

ADHESIVE BECOMES SOLID IN CONTACT WITH SALIVA AND MAY ADHERE TO INSIDE OF MOUTH. SALIVA WILL LIFT ADHESIVE IN 1 -2 DAYS. NOT A TOXIC PRODUCT.

## INHALATION:

PROLONGED OR EXCESSIVE INHALATION MAY CAUSE RESPIRATORY TRACT IRRITATION.

ACUTE TOXICITY: AVOID EXPOSURE TO VAPOR CONCENTRATION IN CONFINED AREAS.

## CHRONIC EFFECTS:

FREQUENT OR PROLONGED CONTACT MAY IRRITATE THE SKIN AND CAUSE A SKIN RASH (DERMATITIS).

## -----5. FIRE FIGHTING MEASURES -----

## GENERAL HAZARD:

COMBUSTIBLE LIQUID AND VAPOR. PRODUCT POLYMERIZED TO SOLID BY WATER.

## EXTINGUISHING MEDIA:

USE DRY CHEMICAL EXTINGUISHER OR FLUSH WITH LARGE AMOUNTS OF WATER.

## HAZARDOUS COMBUSTION PRODUCTS:

CAN BURN IN FIRE, RELEASING IRRITATING VAPORS

EXPLOSION HAZARDS: NONE KNOWN.

## FIRE FIGHTING PROCEDURES:

EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

## FIRE FIGHTING EQUIPMENT:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, (MSHA/NIOSH APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.

FIRE EXPLOSION: NONE KNOWN.

SENSITIVE TO STATIC DISCHARGE: NONE KNOWN.

SENSITIVITY TO IMPACT: NONE KNOWN.

HAZARDOUS DECOMPOSITION PRODUCTS:

COMBUSTIBLE BY-PRODUCTS OF CARBON MONOXIDE/DIOXIDE.

-----6. ACCIDENTAL RELEASE MEASURES -----

SMALL SPILL:

POLYMERIZE WITH WATER. SOLID MATERIAL MAY BE SCRAPED FROM SURFACE.

LARGE SPILL:

POLYMERIZE WITH WATER. INCREASE VENTILATION TO AREA. SOLID MATERIAL MAY BE SCRAPED FROM SURFACE.

ENVIRONMENTAL PRECAUTIONS:

WATER SPILL:

THIS MATERIAL IS A WATER POLLUTANT AND SHOULD BE PREVENTED FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE SYSTEMS AND BODIES OF WATER.

-----7. HANDLING AND STORAGE -----

GENERAL PROCEDURES:

USE WITH ADEQUATE VENTILATION. AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

HANDLING:

AVOID BREATHING (DUST, VAPOR, MIST, GAS). AVOID CONTACT WITH SKIN, EYES AND CLOTHING. KEEP CONTAINER CLOSED WHEN NOT IN USE.

STORAGE:

STORE IN A COOL PLACE IN ORIGINAL CONTAINER AND PROTECT FROM SUNLIGHT. KEEP AWAY FROM SOURCES OF IGNITION.

STORAGE TEMPERATURE:

IDEAL STORAGE: 41-50F (5-10C)

SHELF LIFE:

ONE YEAR FROM THE DATE OF SHIPMENT FROM PACER TECHNOLOGY, UNLESS OTHERWISE NOTED.

-----8. EXPOSURE CONTROLS / PERSONAL PROTECTION -----

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

CHEMICAL NAME	EXPOSURE LIMITS						
	OSHA PEL		ACGIH TLV		SUPPLIER OEL		
	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	
ETHYL-2-CYANOACRYLATE	TWA	[1]	[1]	0.2	1.0	0.2 PPM	

## OSHA TABLE COMMENTS:

1. NL = NOT LISTED

## ENGINEERING CONTROLS:

USE ONLY IN A WELL VENTILATED AREA. LOCAL EXHAUST VENTILATION MAY BE NECESSARY TO CONTROL ANY AIR CONTAMINANTS TO WITHIN THEIR TLVS DURING THE USE OF THIS PRODUCT.

## PERSONAL PROTECTIVE EQUIPMENT:

## EYES AND FACE:

FOR NORMAL CONDITIONS, WEAR SAFETY GLASSES. WHERE THERE IS REASONABLE PROBABILITY OF LIQUID CONTACT, WEAR SPLASH-PROOF GOGGLES.

## SKIN:

USE NITRILE GLOVES AND APRONS TO PREVENT CONTACT. DO NOT USE PVC, NYLON OR COTTON MATERIALS.

## RESPIRATORY:

USE ONLY IN A WELL-VENTILATED AREA. IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT.

## RECOMMENDED:

FULL-FACE NIOSH-APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE.

## WORK HYGIENIC PRACTICES:

AVOID DIRECT CONTACT AND BREATHING VAPOR. USE WITH ADEQUATE VENTILATION. WASH HANDS WITH SOAP AND WATER AFTER USE.

## OTHER USE PRECAUTIONS:

FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY SHOWER.

## -----9. PHYSICAL AND CHEMICAL PROPERTIES -----

PHYSICAL STATE: LIQUID

ODOR: CHARACTERISTIC ODOR, INTENSELY IRRITATING.

ODOR THRESHOLD: ODOR THRESHOLD = 1 PPM

APPEARANCE: TRANSPARENT, COLORLESS LIQUID.

PH: NOT APPLICABLE.

PERCENT VOLATILE: NOT AVAILABLE

## FLASHPOINT AND METHOD:

80 DEG. C (176 DEG. F) TO 93.4 DEG. C (200 DEG. F) TAG CC

FLAMMABLE LIMITS: NOT AVAILABLE

AUTOIGNITION TEMPERATURE: 485 DEG. C (905 DEG. F)

VAPOR PRESSURE: <0.2 MMHg

VAPOR DENSITY: NOT AVAILABLE

BOILING POINT: >149 DEG. C (300 DEG. F)

FREEZING POINT: NOT AVAILABLE

MELTING POINT: NOT DETERMINED

THERMAL DECOMPOSITION: NOT AVAILABLE

SOLUBILITY IN WATER: INSOLUBLE

EVAPORATION RATE: NOT ESTABLISHED

DENSITY: NOT AVAILABLE

SPECIFIC GRAVITY: 1.07 G/ML AT 25 DEG. C

VISCOSITY #1: 80 TO 120 CENTIPOISE AT 22 DEG. C (72 DEG. F)

MOLECULAR WEIGHT: NOT AVAILABLE

(VOC): <20.000 G/L PER SCAQMD METHOD 316B.

COEFF. OIL/WATER:

PARTITION COEFFICIENT (OCTANOL/WATER): NOT APPLICABLE.

-----10. STABILITY AND REACTIVITY -----

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID:

AVOID TEMPERATURES ABOVE 176 DEG. F (80 DEG. C), MOISTURE AND ALKALINES.

POSSIBILITY OF HAZARDOUS REACTIONS:

POSSIBLE POLYMERIZATION REACTION IN THE PRESENCE OF WATER, AMINES, ALKALIS AND ALCOHOLS.

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON DIOXIDE, CARBON MONOXIDE AND OTHER TOXIC OR IRRITATING COMPOUNDS MAY FORM WHEN HEATED TO DECOMPOSITION. OXIDES OF NITROGEN AND PROBABLY HYDROGEN CYANIDE ARE ALSO POSSIBLE.

INCOMPATIBLE MATERIALS:

POLYMERIZED BY WATER, ALCOHOL, AMINES, ALKALINE MATERIALS.

## COMMENTS:

## REACTIVITY:

RAPID EXOTHERMIC POLYMERIZATION WILL OCCUR IN THE PRESENCE OF WATER, AMINES, ALKALIS AND ALCOHOLS.

## -----11. TOXICOLOGICAL INFORMATION -----

## ACUTE:

CHEMICAL NAME	ORAL LD50 (RAT)	DERMAL LD50 (RABBIT)
ETHYL-2-CYANOACRYLATE	>5000 MG/KG	>2000 MG/KG

DERMAL LD50: >2000 MG/KG

NOTES: (ESTIMATED)

ORAL LD50: >5000 MG/KG

NOTES: (ESTIMATED)

INHALATION LC50: VAPORS MAY BE IRRITATING.

## RECOMMENDED:

TWA: 0.2 PPM.

EYE EFFECTS: BONDS SKIN AND EYES IN SECONDS. EYE IRRITANT.

## SKIN EFFECTS:

IRRITATING TO SKIN. MAY CAUSE ALLERGIC SKIN REACTION WITH PROLONGED CONTACT.

## CARCINOGENICITY:

IARC: NONE KNOWN

NTP: NONE KNOWN

OSHA: NONE KNOWN

SENSITIZATION: POSSIBLE SKIN SENSITIZER.

## TARGET ORGANS:

INGREDIENT	HEALTH EFFECT / TARGET ORGAN
ETHYL CYANOACRYLATE	IRRITANT, ALLERGEN / RESPIRATORY, SKIN

## -----12. ECOLOGICAL INFORMATION -----

## ENVIRONMENTAL DATA:

THIS MATERIAL IS A WATER POLLUTANT AND SHOULD BE PREVENTED FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE SYSTEMS AND BODIES OF WATER.



## -----13. DISPOSAL CONSIDERATIONS -----

## DISPOSAL METHOD:

DISPOSE OF FOLLOWING ALL LOCAL AUTHORITY REQUIREMENTS FOR DISPOSAL.

## -----14. TRANSPORT INFORMATION -----

## DOT (DEPARTMENT OF TRANSPORTATION):

PROPER SHIPPING NAME: NOT RESTRICTED

## ROAD AND RAIL (ADR/RID):

PROPER SHIPPING NAME: NOT RESTRICTED

## AIR (ICAO/IATA):

## SHIPPING NAME:

NOT REGULATED (LESS THAN 500 ML). AVIATION REGULATED LIQUID, N. O. S.  
(ETHYL CYANOACRYLATE), UN3334, 9.

## VESSEL (IMO/IMDG):

SHIPPING NAME: NOT RESTRICTED

## CANADA TRANSPORT OF DANGEROUS GOODS:

SHIPPING NAME: NOT RESTRICTED

## -----15. REGULATORY INFORMATION -----

## UNITED STATES:

## SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES: IMMEDIATE HEALTH, DELAYED HEALTH, FIRE, REACTIVE.

313 REPORTABLE INGREDIENTS: NONE ABOVE REPORTING DE MINIMUMS.

## 302/304 EMERGENCY PLANNING:

EMERGENCY PLAN: NONE ABOVE REPORTING DE MINIMUMS.

## TSCA (TOXIC SUBSTANCE CONTROL ACT):

CHEMICAL NAME	CAS
ETHYL-2-CYANOACRYLATE	7085-85-0
POLYMETHYL METHACRYLATE	9011-14-7

## TSCA STATUS:

ALL COMPONENTS ARE LISTED ON OR ARE EXEMPT FROM LISTING ON THE TOXIC  
SUBSTANCES CONTROL ACT.

## CLEAN AIR ACT:

40 CFR PART 68 - RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION:  
NOT APPLICABLE.

CALIFORNIA PROPOSITION 65:  
NO CALIFORNIA PROPOSITION 65 INGREDIENTS ARE KNOWN TO BE IN THIS PRODUCT.

CANADA:  
WHMIS HAZARD SYMBOL AND CLASSIFICATION:  
COMBUSTIBLE LIQUID  
TOXIC

CLASS B3 - COMBUSTIBLE, D2B - IRRITANT.

WHMIS CLASS: B3 - COMBUSTIBLE, D2B - IRRITANT.

DOMESTIC SUBSTANCE LIST (INVENTORY):  
ALL COMPONENTS ARE LISTED ON OR ARE EXEMPT FROM LISTING ON THE DOMESTIC  
SUBSTANCES LIST.

-----16. OTHER INFORMATION -----

PREPARED BY: SAMANTHA STOUFFER

DATE-REVISED: 6/23/2015

REVISION SUMMARY: THIS MSDS REPLACES THE 4/30/2015 MSDS.

REVISED:  
SECTION 5: FLAMMABLE CLASS.

HMIS RATING:  
HEALTH 2  
FLAMMABILITY 2  
PHYSICAL HAZARD 1  
PERSONAL PROTECTION

NFPA CODES:

2  
2  
1

MANUFACTURER DISCLAIMER:

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HOWEVER, MRO SOLUTIONS DOES NOT ASSUME ANY LIABILITY FOR THE ACCURACY OR  
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MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION.  
ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT  
THESE ARE THE ONLY HAZARDS WHICH EXIST.

