

GS741

MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION

Name: ALLSTATES SS-261 SOLUBLE CUTTING OIL
Type: A WATER SOLUBLE CUTTING OIL
D.O.T
Shipping Name: NOT APPLICABLE (N/A)
Hazard Class: N/A
ID No.: NOT APPLICABLE (N/A)
Label: NONE REQUIRED

II. HAZARDOUS INGREDIENTS

Material	Weight	TLV
HYDROTREATED HEAVY NAPHTHENIC	<30%	5MG/M ³
PETROLEUM DISTILLATE (CAS #64742-52-6)		
HYDROTREATED LIGHT NAPHTHENIC	<65%	5MG/M ³
PETROLEUM DISTILLATE (CAS #64742-63-6)		

PHYSICAL DATA

Boiling Point (F°): 300-400°F
Specific Gravity (Water=1): 0.971
Soluble By Weight (%): NEGLIGIBLE
Weight Per Gallon: (pounds): 8.1 POUNDS
Solubility in Water: DISPERSIBLE
Color: N/A
Appearance & Odor: A DARK BROWN LIQUID WITH A OIL-LIKE ODOR

FIRE & EXPLOSION HAZARD DATA

Flashpoint (F°) (Method Used): ABOVE 200°F
Extinguishing Media: CARBON DIOXIDE, DRY CHEMICAL OR FOAM
Special Fire Fighting Procedures: SAME AS ANY OIL BASE PRODUCT
Unusual Fire & Explosion Hazards: NONE

V. HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: PRODUCT CAN IRRITATE EYES AND SKIN

CHRONIC HEALTH EFFECTS: CHRONIC EXPOSURE TO PETROLEUM DISTILLATES MAY CAUSE EFFECTS TO CENTRAL NERVOUS SYSTEM, KIDNEY AND LIVER.

FIRST AID PROCEDURES:

If Swallowed: DO NOT INDUCE VOMITING. CONTACT A PHYSICIAN.
If Inhaled: N/A
If In Eyes: FLUSH EYES IMMEDIATELY WITH PLENTY OF COOL WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, CONTACT A PHYSICIAN.
If On Skin: WASH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPS, CONTACT A PHYSICIAN

VI. REACTIVITY DATA

Stability: STABLE
Conditions to Avoid: NONE
INCOMPATIBILITY (Materials to avoid): STRONG OXIDIZING AGENTS SUCH AS CHROMIC ACID, HYDROGEN PEROXIDE AND BROMINE
Hazardous Decomposition Products: CARBON MONOXIDE, OXIDES OF SULFUR

HAZARDOUS POLYMERIZATION WILL NOT OCCUR

VII. SPILL OR LEAK PROCEDURES

Steps To Be Taken If Material Is Released Or Spilled: STOP LEAK. CONTAIN LARGE SPILLS AND RETURN TO CONTAINER. USE OIL ABSORBENT MATERIAL FOR CLEAN UP.

Waste Disposal Method: BURY IN AN APPROVED LANDFILL DUMP. THIS PRODUCT IS NOT A HAZARDOUS WASTE AS FORMULATED.

Follow All Federal, State and Local Regulations Regarding Waste Disposal

VIII. SPECIAL PROTECTION INFORMATION:

Eye protection and protective gloves are recommended any time your work with any concentrated industrial strength cleaning products.

Respiratory Protection: NONE REQUIRED UNDER NORMAL CONDITIONS
Ventilation: NORMAL ROOM VENTILATION
Protective Gloves: RECOMMENDED (RUBBER)
Eye Protection: SAFETY GLASSES
Other Protective Equipment: NONE REQUIRED.

IX. SPECIAL PRECAUTIONS:

Precautions To Be Taken In Handling Storage: STORE IN A COOL, DRY PLACE. KEEP FROM FREEZING. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. AVOID CONTACT WITH EYES.

OTHER PRECAUTIONS:

HMIS RATING: HEALTH 1 FLAMMABILITY 1
PERSONAL PROTECTION B REACTIVITY 0

Read and follow all label directions and precautions before using the product. These products are intended for industrial and institutional use only. Not intended for household use or resale.

KEEP OUT OF THE REACH OF CHILDREN

While we believe that the data contained herein is factual and the opinions expressed are those of qualified experts, the data are not to be taken as a warranty or representation for which the company assumes legal responsibility. They are offered solely for your consideration, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, and Local laws and regulations.

HEALTH AND SAFETY INFORMATION (216) 861-7114

MAY 1990

SAL 000009665



Conoco Inc.

Purchase Requisition

Page
ofShaded Areas
for Purchasing
Dept. Use OnlyRQ Loc
316Requisition No.
264334

A

CD

Ve. Information

Priority

RLOC

Department

Ship
Via

Date Req'd at Dest.

Order
Type

Previous P.O.

REB

Refining

NORM

STATE CHEMICAL

Ship To

*Pay when
Mat'l arrives*Conoco Inc.
Refinery Warehouse
Old Spanish Trail
P.O. Box 37
Westlake, LA 70669

Tagging Instructions

F.O.B. Point

Freight Terms

Carrier

Project ID

Clauses

Payment Terms

AFE Reporting

Attn:

600-782-2436 TOM

Requisitioner

Date

Distribution Charge

318-491-5558 SUE ANDERSON 08-28-90

7411-3-0-5452-03-30

Tax Status

Special Instructions

Charge
6%

Exempt

Tcks. Date Control W.O. Equip. No. Init. Stat. Time Ordered Time Req'd Unit Code Date Required

264334 08-28-90 5558 MH 64 1415 NORM 7411-3-0-5452-03-30

Card Stock No. Description Item No. Quantity Ordered Units of Issue Price Qty. Issued

ALLSTATE SOLUBLE OIL SS261 CIPTING OIL

1

3

ECAF

6 GAL CONTAINERS

M. HULLIS

CONFIRMING ORDER ANDERSON TO STATE (TOM) DO NOT DUB

*9/5 melissa said they will put a
tracer on bal - all 18 gals were shipped
and -*

Appr

Operating Dept.

Approval - Purchasing Dept.

(008339-0157P -E0021638-4295)

DATE OF ISSUE
01/26/90SUPERSEDES
01/26/90

G S 7 4 2

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS N/A	TRADE NAME & SYNONYMS COOL PREP	
CHEMICAL FAMILY N/A	FORMULA X<--MIXTURE	
MANUFACTURERS NAME: NATIONAL CHEMSEARCH DIV. OF NCH CORP.		
ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE): BOX 152170 IRVING, TEXAS 75015		
PREPARED BY: KELLY SEALS/T.S.CHEMIST	PRODUCT CODE NUMBER 4295	EMERGENCY TELEPHONE NUMBER 214-438-1381

SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS AS THE PRODUCT MIXTURE HAS NOT BEEN TESTED AS A WHOLE.

CHEMICAL NAME (INGREDIENTS)	HAZARD	TLV*	PEL*	CAS#
NO HAZARDOUS INGREDIENTS				
PER 29 CFR 1910.1200(D)				

SECTION IIIA - NON-HAZARDOUS INGREDIENTS

NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE SECRET REGISTRY # 409363-5171P

COOL PREP

SECTION III - PHYSICAL DATA

PAGE : 02

BOILING PT. (FAHRENHEIT)	212 F.	SPEC GRAVITY (H2O=1)	1.12
VAPOR PRESSURE (MM HG)	17	COLOR	WATER-WHITE
VAPOR DENSITY (AIR=1)	0.6	ODOR	LOW
PH @ 100%	6.3-6.5	CLARITY	TRANSPARENT
PERCENT VOLATILE BY VOLUME (%)	50	EVAPORATION RATE (BU AC "1")	0.10
SOLUBILITY IN WATER	COMPLETE		
VISCOSITY	NON-VISCOUS		

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	LEL	UEL
NON-FLAM		N/A	N/A
EXTINGUISHING MEDIA "ALCOHOL"	DRY	WATER	
<--FOAM <--FOAM	X<--CO2 X<--CHEMICAL	<--SPRAY	<--OTHER
SPECIAL FIRE FIGHTING PROCEDURES			
N/A			

UNUSUAL FIRE & EXPLOSION HAZARDS

N/A

NFPA HAZARD RATING (0=INSIGNIFICANT; 1=SLIGHT; 2=MODERATE; 3=HIGH; 4=EXTREME):
0<--HEALTH 0<--FLAMMABILITY 0<--REACTIVITY <--SPECIAL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE :

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

EFFECTS OF OVEREXPOSURE

DIRECT CONTACT WITH EYES MAY CAUSE IRRITATION. - ACUTE - (SHORT TERM EXPOSURE)

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----- CHRONIC - (LONG TERM EXPOSURE) -----
 DIRECT CONTACT WITH EYES FOR PROLONGED PERIOD OF TIME MAY CAUSE IRRITATION
 AND REDDENING.

 PRIMARY ROUTE OF ENTRY: <-- INHALATION <-- INGESTION X<-- ABSORPTION

EMERGENCY & FIRST AID PROCEDURES

INHALATION :
 NOT A HAZARD

EYE CONTACT:
 FLUSH EYES WITH PLENTY OF WATER FOR 5-10 MINUTES. SEEK MEDICAL ATTENTION
 IF ANY IRRITATION PERSISTS.

SKIN CONTACT:
 NOT NORMALLY A HAZARD. RINSE OFF WITH SOAP AND WATER.

INGESTION :
 IF SWALLOWED, DRINK TWO GLASSES OF WATER. SEE A PHYSICIAN IF DISCOMFORT
 OCCURS.

NOTES TO PHYSICIAN :
 N/A

SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

IARC	<--YES	NTP	<--YES	OSHA	<--YES	ACGIH	<--YES	OTHER	<--YES
X<--NO	X<--NO	X<--NO	X<--NO	X<--NO	X<--NO	X<--NO	X<--NO	X<--NO	X<--NO

N/A

SECTION VII - REACTIVITY DATA

STABILITY	X<--STABLE	<--UNSTABLE	CONDITIONS TO AVOID
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N/A

INCOMPATIBILITY (MATERIALS TO AVOID)

N/A

HAZARDOUS DECOMPOSITION PRODUCTS

OXIDES OF NITROGEN

HAZARDOUS	WILL NOT	MAY	CONDITIONS TO AVOID
X <--OCCUR	<--OCCUR	<--OCCUR	

POLYMERIZATION

N/A

COOL PREP

SECTION VIII - SPILL OR LEAK PROCEDURES PAGE : 04

STEPS TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
 FLOOD SURFACE WITH PLENTY OF WATER AND FLUSH DOWN DRAIN.

WASTE DISPOSAL METHOD:
 DISPOSE OF IN ACCORDANCE WITH STATE, FEDERAL, AND LOCAL REGULATIONS
 CONCERNING HEALTH POLLUTION.

NEUTRALIZING AGENT

N/A

SECTION IX - SPECIAL PROTECTION INFORMATION

REQUIRED VENTILATION

N/A

RESPIRATORY PROTECTION
 TYPICAL USE OF THIS PRODUCT DOES NOT REQUIRE RESPIRATORY PROTECTION.

PROTECTIVE GLOVES

N/A

EYE PROTECTION
 TYPICAL USE OF THIS PRODUCT DOES NOT REQUIRE
 USE OF EYE PROTECTION.

OTHER PROTECTION

N/A

SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE	INDOOR	HEATED	REFRIGERATED	OUTDOOR
120 F. <--MAX 32 F. <--MIN	X			X

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
 STORE AT MODERATE TEMPERATURES.

OTHER PRECAUTIONS
 KEEP OUT OF REACH OF CHILDREN.
 READ ENTIRE LABEL BEFORE USING.

SECTION XI - REGULATORY INFORMATION

(PENNSYLVANIA RIGHT-TO-KNOW REQUIREMENT: NON-HAZARDOUS INGREDIENT NAMES ARE
 WITHHELD AS A TRADE SECRET)

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(CONTINUED)

SECTION XI - REGULATORY INFORMATION

PAGE : 05

CHEMICAL NAME	C.A.S. NUMBER	UPPER % LIMIT
N/A		

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

IF UE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END USERS ARE EXEMPT FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE JANITORIAL WORK, OR THE PRODUCT IS USED AND LABELED FOR FACILITY GROUNDS MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRODUCT IS USED AND LABELED FOR MAINTAINING MOTOR VEHICLES.

SECTION XII - TRANSPORTATION - (FOR FUTURE USE)

APPLICABLE REGULATIONS	---TARIFF E D	---IATA	---MILITARY AIR (AFR 71-4)
<--49 CFR <--IMCC			

SHIPPING NAME

HAZARD CLASS	ID NUMBER	REPORT QTY

LABELS	LIMITED QTY

UNIT CONTAINER

DOT SPS CONTAINER	NET EXPLOSIVE WT.

AEROSOL PROPELLANT(S)

SECTION XIII - REFERENCES

N/A

(CONTINUED)

SECTION XIII - REFERENCES

PAGE : 06

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

NATIONAL CHEMSEARCH DIV. OF NCH CORP. ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE CAUSED BY THE USE, STORAGE OR DISPOSAL OF THE PRODUCT IN A MANNER NOT RECOMMENDED ON THE PRODUCT LABEL. USERS ASSUME ALL RISKS ASSOCIATED WITH SUCH UNRECOMMENDED USE, STORAGE, OR DISPOSAL OF THE PRODUCT.

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DATE OF ISSUE
01/26/90SUPERSEDES
01/26/90

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS
N/ATRADE NAME & SYNONYMS
COOL SHIELDCHEMICAL FAMILY
ALKALINE RADIATOR TREATMENTFORMULA
X<-- MIXTUREMANUFACTURER'S NAME
NATIONAL CHEMSEARCH DIV. OF NCH CORP.ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE)
BOX 152170
IRVING, TEXAS 75015PREPARED BY
KELLY SEALS/T.S.CHEMISTPRODUCT CODE NUMBER
4297EMERGENCY TELEPHONE NUMBER
214-438-1381

SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL
COMPONENTS AS THE PRODUCT MIXTURE HAS NOT BEEN TESTED
AS A WHOLE.

CHEMICAL NAME (INGREDIENTS)	HAZARD	TLV*	PEL*	CAS#
SODIUM 2-MERCAPTOBENZOTHAZOLE	IRRITANT	NOT EST.	NOT EST.	2492-26-4

SECTION IIA - NON-HAZARDOUS INGREDIENTS

NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE
SECRET REGISTRY # 409363-5136P

SECTION III - PHYSICAL DATA

COOL SHIELD

(CONTINUED)

SECTION III - PHYSICAL DATA

PAGE : 02

BOILING PT. (FAHRENHEIT)	220	SPEC GRAVITY (H2O=1)	1.11
VAPOR PRESSURE (MM HG)		COLOR	PURPLE
VAPOR DENSITY (AIR=1)		ODOR	LIGHT
PH @ 100%	13.0	CLARITY	OPAQUE
PERCENT VOLATILE BY VOLUME (%)		EVAPORATION RATE (BU AC = 1)	0.10
SOLUBILITY IN WATER	COMPLETE		
VISCOSITY	WATER-LIKE		

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED)	N/A	FLAMMABLE LIMITS	N/A	LEL	N/A	UEL
EXTINGUISHING MEDIA	"ALCOHOL"					
<--FOAM	<--FOAM	<--CO2	<--CHEMICAL	<--SPRAY	<--OTHER	

SPECIAL FIRE FIGHTING PROCEDURES
N/A

UNUSUAL FIRE & EXPLOSION HAZARDS

N/A

NFPA HAZARD RATING (0=INSIGNIFICANT; 1=SLIGHT; 2=MODERATE; 3=HIGH; 4=EXTREME):
2 <--HEALTH 0 <--FLAMMABILITY 0 <--REACTIVITY <--SPECIAL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE :

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

EFFECTS OF OVEREXPOSURE

IRRITANT FOR SKIN, LUNGS AND EYES. ACUTE - (SHORT TERM EXPOSURE)
CAN CAUSE BURNS OR SEVERE

GS 7 43

COOL SHIELD

(CONTINUED)

SECTION V - HEALTH HAZARD DATA

PAGE : 03

IRRITATION.

- CHRONIC - (LONG TERM EXPOSURE)
LOCAL AREAS OF SUPERFICIAL DESTRUCTION OF THE SKIN OR DERMATITIS.
INHALATION OF MIST MAY RESULT IN INCREASED SUSCEPTIBILITY TO
RESPIRATORY ILLNESS OR VARYING DEGREES OF IRRITATION OF THE RESPIRATORY
TRACT TISSUES.

PRIMARY ROUTE OF ENTRY: <-- INHALATION <-- INGESTION X<-- ABSORPTION

EMERGENCY & FIRST AID PROCEDURES

INHALATION:
OBJECT IS TO SEEK MEDICAL ATTENTION. GET PERSON OUT OF CONTAMINATED AREA
TO FRESH AIR. IF BREATHING HAS STOPPED, ARTIFICIAL RESPIRATION SHOULD BE
STARTED. OXYGEN MAY BE ADMINISTERED, IF AVAILABLE. SEEK MEDICAL
ATTENTION IMMEDIATELY.

EYE CONTACT:
IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES HOLDING
EYELIDS APART FOR MAXIMUM FLUSHING. SEEK MEDICAL ATTENTION IF IRRITATION
PERSISTS. TREATMENT IS MOST EFFECTIVE IN THE FIRST MINUTE.

SKIN CONTACT:
WASH CONTAMINATED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING
AND FOOTWEAR. WASH BEFORE REUSE. SEEK MEDICAL ATTENTION IMMEDIATELY,
IF IRRITATION DEVELOPS.

INGESTION:
SEEK MEDICAL ATTENTION IMMEDIATELY. GIVE LARGE QUANTITIES OF WATER AND
INDUCE VOMITING. KEEP AIR PASSAGES CLEAR. NEVER GIVE ANYTHING BY MOUTH
TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION IMMEDIATELY.

NOTES TO PHYSICIAN:

N/A

SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

IARC	<--YES	NTP	<--YES	OSHA	<--YES	ACGIH	<--YES	OTHER	<--YES
X<--NO		X<--NO		X<--NO		X<--NO			X<--NO

SODIUM 2-MERCAPTOBENZOTHIASOLE

ORL-RAT LD50: 5200MG/KG 1.

SKN-RBT LD50: 5010MG/KG 1.

EYE IRRITATION (RABBIT): (FMSA) CORROSIVE 1.

SKIN IRRITATION (RABBIT): (FMSA) CORROSIVE 1.

SECTION VII - REACTIVITY DATA

STABILITY	X<-- STABLE	<-- UNSTABLE	CONDITIONS TO AVOID

N/A

COOL SHIELD

(CONTINUED)

SECTION VII - REACTIVITY DATA

PAGE : 04

INCOMPATIBILITY (MATERIALS TO AVOID)
REACTS VIGOROUSLY WITH STRONG OXIDIZERS SUCH AS HYDROPEROXIDES.
CONTACT WITH STRONG MINERAL ACIDS OR ACID FUMES MAY LIBERATE HEAT

HAZARDOUS DECOMPOSITION PRODUCTS
OXIDES OF CARBON, SULPHUR, NITROGEN MAY BE GIVEN OFF UPON THERMAL
DECOMPOSITION.

HAZARDOUS	WILL NOT	MAY	CONDITIONS TO AVOID
X <-- OCCUR	<-- OCCUR		

POLYMERIZATION

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
STOP LEAKS. CONTAIN SPILL. REMOVE AS MUCH AS POSSIBLE. NEUTRALIZE
REMAINING TRACES OF MATERIAL WITH DILUTED ACID. THEN FLUSH AREA WITH
WATER. REUSE SPILLED MATERIAL IF POSSIBLE OTHERWISE PLACE IN A CLOSED,
LABELED CONTAINER AND STORE IN A SAFE PLACE TO AWAIT PROPER DISPOSAL.

WASTE DISPOSAL METHOD
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS
CONCERNING HEALTH AND POLLUTION. DISPOSE VIA APPROVED CHEMICAL WASTE
DISPOSAL METHOD, IF REGULATIONS PERMIT.

NEUTRALIZING AGENT
NEUTRALIZE WITH ANY DILUTED INORGANIC ACID SUCH AS HYDROCHLORIC,
SULFURIC, NITRIC, PHOSPHORIC OR ACETIC ACID.

SECTION IX - SPECIAL PROTECTION INFORMATION

REQUIRED VENTILATION
MECHANICAL (GENERAL) VENTILATION IS USUALLY ADEQUATE.

RESPIRATORY PROTECTION
USE NIOSH APPROVED MASK IF MISTING OCCURS.

PROTECTIVE GLOVES
PVA GLOVES SHOULD BE WORN DEPENDING
ON SEVERITY OF EXPOSURE.

EYE PROTECTION
GOGGLES SHOULD BE WORN DEPENDING ON
SEVERITY OF EXPOSURE.

OTHER PROTECTION
APRON SHOULD BE WORN DEPENDING ON
SEVERITY OF EXPOSURE.

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STORAGE TEMPERATURE
150 F. <--MAX 35 F. <--MIN INDOOR HEATED REFRIGERATED OUTDOOR
150 F. <--MAX 35 F. <--MIN X > 35 F.
PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
STORE AT MODERATE TEMPERATURES. AVOID
SKIN OR EYE CONTACT.
OTHER PRECAUTIONS
KEEP OUT OF REACH OF CHILDREN. READ AND
FOLLOW ALL LABEL DIRECTIONS. STORE ONLY
IN LABELED CONTAINER.

SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME C.A.S. NUMBER UPPER % LIMIT
N/A

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF
313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF
1986 AND 40 CFR PART 372.
IF UE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END USERS ARE EXEMPT
FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE
JANITORIAL WORK, OR THE PRODUCT IS USED AND LABELED FOR FACILITY GROUNDS
MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRODUCT IS USED AND
LABELED FOR MAINTAINING MOTOR VEHICLES.

SECTION XII - TRANSPORTATION * (FOR FUTURE USE)

APPLICABLE REGULATIONS
<--49 CFR <--IMCO <--TARIFF 6 D <--IATA <--MILITARY AIR (AFR 71-4)
SHIPPING NAME
HAZARD CLASS ID NUMBER REPORT QTY
LABELS LIMITED QTY
UNIT CONTAINER
DOT SPS CONTAINER NET EXPLOSIVE WT.

COOL SHIELD

(CONTINUED) SECTION XII - TRANSPORTATION * (FOR FUTURE USE) PAGE : 06
AEROSOL PROPELLANT(S)

SECTION XIII - REFERENCES

1. RAW MATERIAL VENDOR'S MATERIAL SAFETY DATA SHEET.

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ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY
IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA
OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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FOR PERSONAL INJURY OR PROPERTY DAMAGE CAUSED BY THE USE, STORAGE
OR DISPOSAL OF THE PRODUCT IN A MANNER NOT RECOMMENDED ON THE
PRODUCT LABEL. USERS ASSUME ALL RISKS ASSOCIATED WITH SUCH
UNRECOMMENDED USE, STORAGE, OR DISPOSAL OF THE PRODUCT.

SAL 000009672

(008339-0157P -E0021638-5074)

DATE OF ISSUE
09/11/89SUPERSEDES
09/01/89

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS N/A	TRADE NAME & SYNONYMS BRAKE JOB AEROSOL (BT)
CHEMICAL FAMILY AEROSOL CHLORINATED SOLVENT CLEANER	FORMULA --MIXTURE
MANUFACTURERS NAME: NATIONAL CHEMSEARCH DIV. OF NCH CORP.	
ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE) BOX 182170 IRVING, TEXAS 75015	
PREPARED BY: KEVIN UHL/T.S. CHEMIST	PRODUCT CODE NUMBER 5074
EMERGENCY TELEPHONE NUMBER 214-438-1381	

SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS AS THE PRODUCT MIXTURE HAS NOT BEEN TESTED AS A WHOLE.

CHEMICAL NAME (INGREDIENTS)	HAZARD	TLV*	PEL*	CASA
1,1,1-TRICHLOROETHANE	IRRITANT	350PPM	350PPM	71-55-6
CARBON DIOXIDE	ASPHYXIAN	5000PPM	10,000PPM	124-38-9

SECTION III - PHYSICAL DATA

BOILING PT. (FAHRENHEIT)	162	SPEC GRAVITY (H2O=1)	1.298
VAPOR PRESSURE (MM HG)	10.0	COLOR	WATER WHITE

BRAKE JOB AEROSOL (BT)

(CONTINUED)

SECTION III - PHYSICAL DATA

PAGE : 02

VAPOR DENSITY (AIR=1)	4.6	ODOR	CHLOR. HYDROCARBON
PH @ 100%	N/A	CLARITY	TRANSPARENT
PERCENT VOLATILE BY VOLUME (%)	100	EVAPORATION RATE (BU AC = 1)	0.75
SOLUBILITY IN WATER	NEGLECTIBLE		
VISCOSITY	NON-VISCOUS		

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED)	NON-FLAMC.D.C.	FLAMMABLE LIMITS	LEL	UEL
			6%-25% C.	16.7%-25% C
EXTINGUISHING MEDIA	"ALCOHOL" --FOAM	DRY --CO2	WATER --SPRAY	X--OTHER
SPECIAL FIRE FIGHTING PROCEDURES				
POSITIVE PRESSURE SELF-CONTAINED RESPIRATORY EQUIPMENT.				

UNUSUAL FIRE & EXPLOSION HAZARDS

CAN FORM PHOSGENE UNDER CERTAIN CONDITIONS OF HIGH HEAT.

LEVEL 1 AEROSOL (NFPA 308)

NFPA HAZARD RATING (0=INSIGNIFICANT; 1=SLIGHT; 2=MODERATE; 3=HIGH; 4=EXTREME):
3 --HEALTH 0 --FLAMMABILITY 0 --REACTIVITY --SPECIAL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE :

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

EFFECTS OF OVEREXPOSURE

INHALATION: OVEREXPOSURE CAN CAUSE DIZZINESS, DRUNKENNESS, DROWSINESS, UNCONSCIOUSNESS AND EVEN DEATH AT EXTREME DOSES.
SKIN CONTACT/ABSORPTION: ABSORPTION THROUGH SKIN IS NOT A SIGNIFICANT ROUTE OF EXPOSURE - MILDLY IRRITATING ON CONTACT.

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INGESTION: UNLIKELY ROUTE OF EXPOSURE. INGESTION OF SMALL QUANTITIES IS NOT LIKELY TO BE TOXIC. ALSO UNLIKELY BECAUSE IT BEING AN AEROSOL.
EYES: MILD IRRITATION. BUT NO CORNEAL INJURY LIKELY.

INHALATION: MAJOR ROUTE OF EXPOSURE - LOW SYSTEMIC TOXICITY; ACUTE EXPOSURES IN THE 1000 PPM RANGE CAUSE NARCOISIS.
SKIN CONTACT/ABSORPTION: PROLONGED OR REPEATED SKIN CONTACT CAN CAUSE DERMATITIS THROUGH DEFATTING OF SKIN.
EYES: MAY CAUSE CONJUNCTIVITIS

PRIMARY ROUTE OF ENTRY: X<-- INHALATION <-- INGESTION X<-- ABSORPTION

EMERGENCY & FIRST AID PROCEDURES

REMOVAL TO FRESH AIR. IF BREATHING HAS STOPPED, ADMINISTERED RESPIRATION OR OXYGEN IF AVAILABLE

EYE CONTACT:
IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, HOLDING EYELIDS APART TO ENSURE FLUSHING OF THE ENTIRE EYE SURFACE. SEEK MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:
REMOVE CONTAMINATED CLOTHING AND FLUSH EXPOSED AREAS WITH WATER FOR 5 TO 15 MINUTES.

INGESTION:
DO NOT INDUCE VOMITING. CALL A PHYSICIAN AND OBTAIN MEDICAL ATTENTION.

NOTES TO PHYSICIAN:
BECAUSE RAPID ABSORPTION MAY OCCUR THROUGH LUNGS, THE DECISION OF WHETHER TO INDUCE VOMITING OR NOT SHOULD BE MADE BY A PHYSICIAN. IF LAVAGE IS PERFORMED, SUGGEST ENDOTRACHEAL AND/OR ESOPHAGEAL CONTROL. DANGER MUST BE WEIGHED AGAINST TOXICITY. NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE. TREATMENT BASED ON JUDGEMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT.

SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

IARC	<--YES	NTP	<--YES	OSHA	<--YES	ACGIH	<--YES	OTHER	<--YES
X<--NO		X<--NO		X<--NO		X<--NO		X<--NO	

1. 1,1-TRICHLOROETHANE
ORL-RAT LD50 > 10,000MG/KG 1.
SKN-RBT LD50 > 15,000MG/KG 1.
EYE-MAN: 450 PPM/8H 2.
ORL-HMN TDLD: 670MG/KG 2.

SECTION VII - REACTIVITY DATA

BRAKE JOB AEROSOL (BT)

(CONTINUED)

SECTION VII - REACTIVITY DATA

PAGE : 04

STABILITY	X<--STABLE	<--UNSTABLE	CONDITIONS TO AVOID
			AVOID OPEN FLAMES, WELDING ARCS, OR OTHER HIGH TEMPERATURE SOURCES WHICH INDUCE THERMAL DECOMPOSITION.

INCOMPATIBILITY (MATERIALS TO AVOID)
N/A

HAZARDOUS DECOMPOSITION PRODUCTS
HYDROGEN CHLORIDE AND VERY SMALL AMOUNTS OF PHOSGENE AND CHLORINE.

HAZARDOUS	WILL NOT OCCUR	MAY OCCUR	CONDITIONS TO AVOID
POLYMERIZATION	X		N/A

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
SPILL UNLIKELY. THE PRODUCT IS IN AN AEROSOL FORM.
SMALL LEAKS: MOP UP, WIPE UP, OR SOAK UP IMMEDIATELY. REMOVE TO OUT-OF-DOORS.
LARGE SPILLS: EVACUATE AREA. CONTAIN LIQUID; TRANSFER TO CLOSED METAL CONTAINERS. KEEP OUT OF WATER SUPPLY.

WASTE DISPOSAL METHOD
(IN ORDER OF PREFERENCE) SEND SOLVENT TO LICENSED RECLAIMER, INCINERATE, EVAPORATE VERY SMALL QUANTITIES, OR SEND TO APPROVED LANDFILL BURIAL IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DUMPING INTO SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER IS STRONGLY DISCOURAGED AND MAY BE ILLEGAL.

NEUTRALIZING AGENT

N/A

SECTION IX - SPECIAL PROTECTION INFORMATION

REQUIRED VENTILATION
SUFFICIENT VENTILATION TO BE EQUAL TO OR BELOW THE ALLOWABLE CONCENTRATION.

RESPIRATORY PROTECTION
TYPICAL USE OF PRODUCT DOES NOT REQUIRE THE USE OF A RESPIRATOR. IF PRODUCT IS MISTED, USE NIOSH APPROVED MASK FOR SPRAY MISTS. IN EMERGENCY SITUATIONS, THE FOLLOWING RESPIRATORS ARE RECOMMENDED:
500PPM: CCRGV/SA/SCBA
1000PPM: CCRGV/GMOV/SAF/SCBAF
ESCAPE: GMOV/SCBA

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SECTION IX - SPECIAL PROTECTION INFORMATION PAGE : 05

PROTECTIVE GLOVES
 VITON, PVAL GLOVES IF REPEATED OR PROLONGED
 SKIN CONTACT IS ANTICIPATED.

EYE PROTECTION
 CHEMICAL GOGGLES IF METHOD OF USE PRESENTS THE
 LIKELIHOOD OF EYE CONTACT.

OTHER PROTECTION
 N/A

SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE
 120 F. <--MAX 32 F. <--MIN X INDOOR HEATED REFRIGERATED OUTDOOR

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
 AVOID BREATHING VAPORS. STORE IN COOL, DRY PLACE.
 VAPORS ARE HEAVIER THAN AIR AND WILL COLLECT IN
 LOW AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS
 ARE SUSPECTED. DO NOT USE WITH POWDERED ZINC OR
 ALUMINUM.

OTHER PRECAUTIONS
 ALWAYS FOLLOW LABEL DIRECTIONS. KEEP OUT OF
 REACH OF CHILDREN.

SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME	C.A.S. NUMBER	UPPER % LIMIT
1,1,1-TRICHLOROETHANE	71-55-6	>50

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF
 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF
 1986 AND 40 CFR PART 372.

IF USE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END USERS ARE EXEMPT
 FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE
 JANITORIAL WORK, OR THE PRODUCT IS USED AND LABELED FOR FACILITY GROUNDS
 MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRODUCT IS USED AND
 LABELED FOR MAINTAINING MOTOR VEHICLES.

SECTION XII - TRANSPORTATION * (FOR FUTURE USE)

BRAKE JOB AEROSOL (BT)

(CONTINUED)

SECTION XII - TRANSPORTATION * (FOR FUTURE USE)

PAGE : 06

APPLICABLE REGULATIONS
 <--49 CFR <--IMCO <--TARIFF 6 D <--IATA <--MILITARY AIR (AFR 71-4)

SHIPPING NAME

HAZARD CLASS ID NUMBER REPORT QTY

LABELS LIMITED QTY

UNIT CONTAINER

DOT SPS CONTAINER NET EXPLOSIVE WT.

AEROSOL PROPELLANT(S)

SECTION XIII - REFERENCES

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 N. IRVING SAX.
5. THRESHOLD LIMIT VALUE FOR CHEMICAL SUBSTANCES IN THE WORK
 ENVIRONMENT, 2ND EDITION, ACGIH, 1985.

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 UNRECOMMENDED USE, STORAGE, OR DISPOSAL OF THE PRODUCT.

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