

**NOTES:**

- 1.) ALTERNATE SUPPLIERS MUST SUPPLY SAMPLE, WRITTEN SPECIFICATIONS AND UP TO DATE SAFETY DATA SHEET. SAMPLE MUST SATISFACTORILY MEET THE REQUIREMENTS OF CLEVELAND RANGE QUALITY PROCEDURE QTP-001 AND BE REVIEWED BY THE CLEVELAND RANGE ENGINEERING DEPARTMENT FOR FINAL APPROVAL.

**SPECIFICATIONS**

1.) COMPOSITION

- MATERIAL MUST BE LESS THAN 10% AQUEOUS HYDROGEN CHLORIDE AND BE MORE THAN 9.5% HYDROGEN CHLORIDE
- IN THE EVENT A NON-HYDROGEN CHLORIDE BASED MATERIAL IS SPECIFIED, THE MATERIAL FORMULATION AS SUPPLIED MUST BE SUCH THAT IT IS NOT DEEMED HAZARDOUS AS DEFINED BY DOT 173.240(a) OR OSHA 40CRF-261

2.) OTHER REQUIREMENTS:

- MATERIAL MUST NOT LEAVE RESIDUAL ODOR OR TASTE WHEN USED IN ACCORDANCE WITH CLEVELAND RANGE STANDARD DESCALING INSTRUCTIONS
- MATERIAL MUST BE CATEGORIZED AS USDA BIODEGRADABLE - MUST BREAKDOWN TO COMPONENTS SAFE FOR DISPOSAL INTO A SANITARY DRAIN.
- MATERIAL CAN'T HARM COMPONENTS IT COMES IN CONTACT WITH DURING NORMAL EXPECTED USE.
- MATERIAL MUST CHANGE COLOR ON NEUTRALIZATION OF PH (COLOR CHANGE TO OCCUR BETWEEN A PH OF 5.5 AND 6.0)
- MATERIAL MUST BE WATER BASED SOLVENT CONTAINING WETTING AGENTS, CORROSION INHIBITORS AND DEGREASING COMPOUNDS TO OPTIMIZE EFFECTIVENESS IN WATER BASED APPLICATION
- BOILING POINT MUST BE BETWEEN 200° AND 220°F
- PH NOT TO BE GREATER THAN 1.0
- SPECIFIC GRAVITY TO BE GREATER THAN 1.0
- MATERIAL MUST BE SUITABLE FOR CONTACT WITH AND NOT ADVERSELY EFFECT NICKEL BEARING ALLOYS AND/OR NICKEL BASED PLATING PROCESSES.

3.) MARKING REQUIREMENTS:

- EACH INDIVIDUAL CONTAINER MARKED AS ON DETAIL 1 AND THE OUTER CONTAINER IN THE CASE OF P/N 106174 MUST BE MARKED WITH THE EQUIVALENT MARKING AS PICTURED IN DETAIL 2.

**APPROVED SOURCES:**

SUMMIT INDUSTRIAL PRODUCTS, INC.

MFR. PRODUCT NAME : SUBLIME

SUPPLIERS IDENTIFICATION: BLEND# A-92691

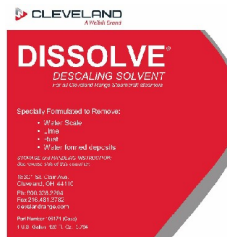
K & S INDUSTRIAL SALES, LLC

MFR. PRODUCT NAME : D-SOLVE D-SCALER

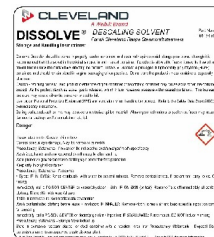
SUPPLIERS IDENTIFICATION: K&S D

**MATERIAL AS SUPPLIED**

- CONTAINS LESS THAN 10% AQUEOUS HYDROGEN CHLORIDE
- LIQUID WITH SPECIFIC GRAVITY OF 1.056 AND A BOILING POINT OF 214°F
- PH OF NEW PRODUCT IS LESS THAN 1.0
- PALE YELLOW REAGENT WITH LIME ODOR PRODUCES DEEP PURPLE COLOR WHEN pH REACHES 5.8 TO 6.0



DETAIL 1



DETAIL 2

LET.	REVISIONS	DATE	BY
A	DRAWING RELEASE PER ECR#6983	02-08-06	CFS
B	ADDED STATEMENT ON SUITABILITY OF USE ON NICKEL	04-12-06	DS
-	BEARING ALLOYS OR NICKEL PLATING, PER EO #C-7044	-	-
-	(REF ECR 06-048)	-	-
C	ADDED ALTERNATE SOURCE K & S SALES, LLC PER	3-23-07	CFS
-	ECR-07-084 (REF ECR 04-101)	-	-
D	CHANGE MSDS TO SAFETY DATA SHEET PER ECR-150009	02-20-15	AA
E	UPDATE PICTURES TO CURRENT LABEL PER PC170341	09-14-17	IG

**PART DESCRIPTION**

P/N 106174

- CASE OF SIX 1 GALLON CONTAINERS OF DISSOLVE

P/N 106174I

- 5-GALLON CONTAINER OF DISSOLVE

ITEM	QTY	PART NO.	DESCRIPTION
<b>CLEVELAND RANGE, LLC</b> 1333 East 179th St., Cleveland, Ohio 44110-2574			
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TOLERANCES (UNLESS OTHERWISE NOTED)	DO NOT SCALE PRINTED DRAWING	DRAWN BY CFS	DATE 02-08-06
DECIMAL	TITLE <b>DESCALER "DISSOLVE" MATERIAL SPECIFICATION</b>		
ANGULAR	SIZE B	DRAWING NO. 106174T.dwg	SHEET 1 OF 1 REV E